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CAUTION: THE BOSE® AV20/35/VIDEOWAVE™ CONSOLE CONTAINS NO USER SERVICEABLE PARTS. TO PREVENT WARRANTYINFRACTIONS, REFER SERVICING TO WARRANTY SERVICE STATIONS OR FACTORY SERVICE.

PROPRIETARY INFORMATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF BOSE CORPORATION WHICH IS BEING FURNISHED ONLY FOR THE PURPOSE OF SERVICING THE IDENTIFIED BOSE PRODUCT BY AN AUTHORIZED SERVICE CENTER OR OWNER OF THE BOSE PRODUCT, AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE.

SAFETY INFORMATION

1. Parts that have special safety characteristics are identified by the symbol on schematics or by special notes on the parts list. Use only replacement parts that have critical characteristics recommended by the manufacturer.

2. Make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the unit to the customer.
Use the following checks to perform these measurements:

A. Leakage Current Hot Check-With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 “Leakage Current for Appliances” and Underwriters Laboratories (UL) 6500/60065 / IEC 60065 paragraph 9.1.1. With the unit AC switch first in the ON position and then in OFF position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the unit (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the unit power cord plug in the outlet and repeat test. ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

B. Insulation Resistance Test Cold Check-(1) Unplug the power supply and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the unit. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and each exposed metallic cabinet part on the unit. When testing 3 wire products, the resistance measured to the product enclosure should be between 2 and infinite MOhms. Also, the resistance measured to exposed input/output connectors should be between 4 and infinite MOhms. When testing 2 wire products, the resistance measured to exposed input/output connectors should be between 4 and infinite MOhms. If it is not within the limits specified, there is the possibility of a shock hazard, and the unit must be repaired and rechecked before it is returned to the customer.

ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) DEVICE HANDLING

This unit contains ESDS devices. We recommend the following precautions when repairing, replacing or transporting ESDS devices:

• Perform work at an electrically grounded work station.

• Wear wrist straps that connect to the station or heel straps that connect to conductive floor mats.

• Avoid touching the leads or contacts of ESDS devices or PC boards even if properly grounded. Handle boards by the edges only.

• Transport or store ESDS devices in ESD protective bags, bins, or totes. Do not insert unprotected devices into materials such as plastic, polystyrene foam, clear plastic bags, bubble wrap or plastic trays.

Product Description

The AV35 and AV20 based systems use variants of the console built using the same mechanical enclosure, but with distinct cosmetic differences. Internal PC board assemblies have different hardware features populated.

System Feature Comparison

LIFESTYLE® V35/V25
HOME ENTERTAINMENT SYSTEMS

LIFESTYLE® T20/T10
HOME THEATER SYSTEMS

Differentiating Features:

- AM/FM tuner w/RDS
- Bose iPod dock included
- Whole-home Boselink Master
- Front and back USB jacks
- Dark grey console cosmetics
- 2-way 2.4GHz remote w/display
- PS III bass box with either
- Jewel® cubes (V35) or Double Shots (V25)

- No tuner
- No Boselink Master capability
- Front USB jack only
- Silver console cosmetics
- 2.4GHz remote w/out display
- PS III bass box with either
- Double Shots (T20) or Single Shots (T10)

Common Features:

Three 1080p/60 HDMI inputs on back, one in front
Analog audio/video inputs on front and back.
Headphone input on front
Integrated IR blaster and external dongle for control integration
ADAPTiQ®
Unify™ setup wizard
External floor wart (universal-input, regulated +12V DC output)

LIFESTYLE® 235 HOME ENTERTAINMENT SYSTEM

The Console has the same features as the Lifestyle® V35/25 Home Entertainment System. It is packaged the Lifestyle 235 bass module and two Gemstone® ES speaker arrays

VideoWave™ (AVM) Control Console

The console has the same features as the Lifestyle® V35/25 Home Entertainment System with the following exceptions. VideoWave connector, click pad remote, no tuner, no Bose link master capability, black cosmetics.

Part List Notes

1. This part is not normally available from customer service. Approval from the Field Service Manager is required before ordering.

2. The individual parts located on the PCB are listed in the part list.

3. This part is critical for safety purposes. Failure to use a substitute replacement with the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards.

4. This part is referenced for informational purposes only. It is not stocked as a repair part. Refer to the next higher or lower level assembly for a replacement part.

5. When replacing the tuner PCB in the AV35 console, use the table below to identify the console type. The difference between the two PCB types is the Apple authentication chip used, U103. To comply with Apple licence agreements, the appropriate PCB must be used. WWiP = Works With iPhone.

First 6 digits of serial number	Country Variant	WWiP Tuner PCB	Non-WWiP Tuner PCB
051115	US		X
051526	EURO		X
051527	JAPAN		X
053582	AP		X
054581	US	X	
054582	EURO	X	
054583	JAPAN	X	
054584	AP	X	

6. Refer to the console variant list on page 6. Use the appropriate replacement console for the customer's system and country variant.

7. When replacing the Main PCB for Non-US units, the console variant needs to be set to show the proper language selection. Refer to page 67 Setting the Console's Product, Region Variant

8. When replacing a PCB in a AVM console, refer to page 6 to varify console type. Use PCBs with IP (iPhone) in the description for consoles sold with the VideoWave® II system.

First 6 digits of serial number	Country Variant	IP PCBs (VideoWave® II)	Non-IP PCBs (VideoWave)
051528	US		X
053791	EURO		X
053792	JAPAN		X
053793	AP		X
057508	US	X	
057509	EURO	X	
057510	JAPAN	X	
057521	AP	X	

Packaging Part List

System Level

Material Number	Description	QTY	Note
-	CONSOLE KIT,US,AV-20 (T10-T20)	1	4
-	CONSOLE KIT,US,AV-35 (V25-V35)	1	4
297330-619S	BASSBOX ASSY, BLACK, DUAL, WWIP, SERV	1	
297330-629S	BASSBOX ASSY, WHITE, DUAL, WWIP, SERV		
297330-613S	BASSBOX ASSY, BLACK, 230V, WWIP, SERV		
297330-623S	BASSBOX ASSY, WHITE, 230V, WWIP, SERV		
324964-1190	SAT ASSY,5PK,SNGL,BLK (T10)	1	4
324965-1190	SAT ASSY,5 PK,DS,BLK (T20, V25)	1	4
324966-1190	SAT ASSY,5PK,JEWEL,BLACK (V35)	1	4
317640-1001	ESSENTIALS KIT,LS-T-10/20	1	4
317640-0001	ESSENTIAL KIT, LS-V-25/35	1	4
348406-0010	CARTON, RSC,LS-V-SS,US (T10)	1	
348408-0010	CARTON, RSC,LS-T20, US (T20)	1	
348410-0010	CARTON, RSC,LS-V25, US (V25)		
348412-0010	CARTON, RSC,LS-V35, US (V35)	1	
293513-001	PACKING,FOAM,EPS,BBOX	1	
295444-001	PACKING,FOAM,EPS,BB-BTM	1	
196638	BAG,POLY,HDPE	1	
325008-0010	CARTON, HSC-FOL,D-C,CORR	1	
279101-1310	LINE CORD, 120V, US	2	3 ⚠
280135-1310	LINE CORD, 220V, EU	2	3 ⚠
280138-1310	LINE CORD, 230V, UK	2	3 ⚠
284243-1310	LINE CORD, 240V, AUS	2	3 ⚠
280136-1310	LINE CORD, 240V, AUS, JP	2	3 ⚠
329792-1310	LINE CORD,110V, TAIWAN	2	3 ⚠
251001	COMMITMENT LETTER	1	

Console Kit

Material Number	Description	QTY	Note
-	CONSOLE	1	6
320600-0010	CARTON, CORR,DC, 20.25X16X5.88, 200	1	
302580-1001	CABLE, DIN-9/DIN-9	1	
326853-0010	CABLE, HDMI	1	
316263-103 OR 353811-0010	PWR PACK, FLR, UNVSL, 12V, 20W, BLK PWR SUPPLY, EXT, UNVSL, 2.92A, 12V, 35W, BLK	1	3 ⚠
324443-0010	GUIDE, SET-UP AIM	1	

Note 6. Refer to the console variant list on page 6. Use the appropriate replacement console for the customer's system and country variant.

Additional notes: Refer to the manuals below for system packaged part list.
VideoWave® service manual 319998-SM
VideoWave® II service manual 355313-SM
Lifestyle® 135 service manual 329199-SM
Lifestyle® 235 service manual 288432-SM

Console Variants

AV35 Console Not WWiP Compliant – Sold with Lifestyle® V25/35 home entertainment systems prior to 02/15/2011

Countries Supported	Serial Number – First 6 Digits	Service Console
United States, Canada	051115	330769-110S
Europe	051526	330769-210S
Japan	051527	330769-310S
Asia Pac, Middle East (including Australia, China, Singapore, Taiwan, Korea, India, Philippines)	053582	330769-510S

AV35 Console WWiP Compliant – Sold with Lifestyle® 135 and 235 home entertainment system. Sold with Lifestyle® V25/35 home entertainment systems after 02/15/2011

Countries Supported	Serial Number – First 6 Digits	Service Console
United States, Canada	054581 056607 056608	330769-151S
Europe	054582 056610 056611	330769-254S
Japan	054583 056613 056614	330769-351S
Asia Pac, Middle East (including Australia, China, Singapore, Taiwan, Korea, India, Philippines)	054584 056616 056617	330769-551S

AV20 Console - Lifestyle® T10 and T20 home entertainment system

Countries Supported	Serial Number – First 6 Digits	Service Console
United States, Canada	051116 056606	330769-121S
Europe	053581 056609	330769-224S
Japan	053771 056612	330769-321S
Asia Pac, Middle East (including Australia, China, Singapore, Taiwan, Korea, India, Philippines)	053772 056615	330769-521S

AVM Console Not WWiP Compliant – Sold with VideoWave™ I entertainment system

Countries Supported	Serial Number – First 6 Digits	Service Console
United States, Canada	051528	330769-130S
Europe	053791	330769-230S
Japan	053792	330769-330S
Asia Pac, Middle East (including Australia, China, Singapore, Taiwan, Korea, India, Philippines)	053793	330769-530S

AVM Console WWiP Compliant – Sold with VideoWave™ II entertainment system

Countries Supported	Serial Number – First 6 Digits	Service Console
United States, Canada	057508	330769-170S
Europe	057509	330769-270S
Japan	057510	330769-370S
Asia Pac, Middle East (including Australia, China, Singapore, Taiwan, Korea, India, Philippines)	057521	330769-570S

Packaging Part List

Essentials Kit

Material Number	Description	QTY	Note
-	LIT KIT, T-10/20,V-25/35	1	
347426-0010	ANTENNA,FM DIPOLE,F CONN (V25/V35)	1	
347423-0010	ANTENNA, FM DIPOLE, 75 OHM, PAL CONN	1	
199824-002	ANTENNA ASSY,AM,CD20 (V25/35)	1	
324714-1010	3 EMITTER IR DONGLE	1	
372005-0010	LIFESTYLE RC35T RMT CONT, WORLD WIDE FINSIHED GOODS PACKAGED VERSION	-	6
372004-0010	LIFESTYLE RC20T RMT CONT, WORLD WIDE FINSIHED GOODS PACKAGED VERSION	-	6
354079-0050	REMOTE,RF,RC35T, US/EURO	1	
354079-0060	REMOTE,RF,RC35T-A,AP/JP		
354077-0030	REMOTE, RF, RC20T, World Wide	1	
318585-1011	DOCK, IPOD (V25/V35)	1	
287077-001	KIT,SUB-ASSY,BATTERY,AA,4PK	1	
321500-0010	PACKING,TRAY, PULP, INSTALLIQ	1	
320599-0010	CARTON,D-C,12.88X16.00X4.25	1	
307702-001	KIT, ADAPTIQ HEADSET	1	
185931-101	CABLE,RCA,6 FT	1	

Single Cube Speakers

Material Number	Description	QTY	Note
250490-149	SAT ASSY,SGLSHT,BK,MX,ROHS	5	
323021-0010	CARTON,DC,200B,9.88X16.00X4.25	1	
294520-201 or -3010	CABLES,SPKR,L/C/R,BLACK	1	
294521-001 or -1001	CABLE,SPEAKER,REAR	1	

Direct Reflecting Speakers Pack

Material Number	Description	QTY	Note
192420-149	SAT ASSY,D/S,BK,MX,RoHs	4	
290198-119	SATELLITE,CENTER,BLACK,MEX	1	
323021-0010	CARTON,DC,200B,9.88X16.00X4.25	1	
294520-1201	CABLES,SPKR,L/C/R,BLACK	1	
294521-1001	CABLE,SPEAKER,REAR	1	
121428	PACKING,PAD,49.50x40.75	1	

Jewel Cube Pack

Material Number	Description	QTY	Note
289523-019	SATELLITE ASSY,CRCKT,SGL,BK,MX	4	
303945-002P	SAT,CTR,ADAPTIQ,BLK,BULK	1	
295979-002	PACKING,TRAY,PETG,CUBES	1	
323021-0010	CARTON,DC,200B,9.88X16.00X4.25	1	
294522-201 or -2010	CABLES,SET,L/C/R,BLACK	1	
294523-201 or -2010	CABLES,SET,REAR,L/R,BLACK	1	
304994	PACKING,SHT,FOAM,PP	1	

Note 6: Finished goods remotes are packaged with pairing instructions

Additional notes: Refer to the manuals below for system packaged part list.
VideoWave® service manual 319998-SM
VideoWave® II service manual 355313-SM
Lifestyle® 135 service manual 329199-SM
Lifestyle® 235 service manual 288432-SM

Packaging Part List

LIT KIT

Material Number	Description	QTY	Note
-	SHEET SLIP COMPONENT AUDIO	1	
-	BAG,POLY,14.38x9.87x2 mil	1	
348139-0010 348146-0010 348154-0010 348147-0010	GUIDE, 3D VIDEO FEATURES, AIM GUIDE, 3D VIDEO FEATURES, EU GUIDE, 3D VIDEO FEATURES, BKK GUIDE, 3D VIDEO FEATURES,APAC	1	
-	SHEET, ADDRESS, PAGE, BOSE	1	
-	GLOBAL WARRANTY CARD, 1 YR.	1	
178321-04	FOOT,CLEAR,.312x.085,4'	1	
142839	BUMPER,RECESSED,FOOT,.88"	1	
318542-0002 or 353201-0010	DRIVE, FLASH, USB DRIVE,FLASH,USB,4GB	1	

Additional notes: Refer to the manuals below for system packaged part list.
VideoWave® service manual 319998-SM
VideoWave® II service manual 355313-SM
Lifestyle® 135 service manual 329199-SM
Lifestyle® 235 service manual 288432-SM

FM
Bose Link Out
Ipod Connector

AV35 Variant
Main Assembly Part List

Refer to Figure 1 Main Assembly Exploded View on page 12

Item Number	Description	Material Number	QTY	Note
1	TOP COVER ASSEMBLY, AV35	329929-1010	1	
	CONTAINS:			
-	317040-1010 COVER, TOP, AV35		1	
2	317078-0010 NAMEPLATE, LOGO,BOSE		1	
3	317041-0001 BEZEL, VENT		1	
4	324420-0020 COVER, SPACER		1	
5	317058-0010 GLOBAL SHIELD, TOP		1	
6	328484-0010 PAD, ELECTRICAL & THERMAL CONDUCTIVE		1	
7	349248-0010 HEATSINK		1	
8	289391-008 SCREW,6-32X1/2,THREAD ROLLING		9	
9	323016-0001 BRACKET, MAIN		1	
10	PAD, THERMAL	317045-0001 or -0002	1	
11	CABLE, FFC, 50 COND (AUX TO MAIN PCB)	317142-50080	1	
12	CABLE, FFC, 24 COND, 80MM (MAIN TO ZONE 2 PCB)	317145-24080	1	
13	CABLE, DISCRETE, 2 COND, 115MM	317147-02115	1	
14	CABLE, FFC, 13 COND (AUX TO IR PCB)	317144-13100	1	
15	CABLE, FFC, 24 COND, OPPOSE, 155MM (MAIN TO AV PCB)	324514-24155	1	
16	CABLE, FFC, 9 COND, (AUX TO BUTTON PCB)	317146-09145	1	
17	MAIN PCB, V25/35 CONSOLE	327054-124S	1	7
18	TUNER PCB, AV35 CONSOLE, NON-WWiP, US	329892-124S	1	5
18	TUNER PCB, AV35 CONSOLE, NON-WWiP, EU	329892-224S	1	5
18	TUNER PCB, AV35 CONSOLE, NON-WWiP, JP	329892-324S	1	5
18	TUNER PCB AV35 CONSOLE, WWiP, US	329892-624S	1	5
18	TUNER PCB AV35 CONSOLE, WWiP, EU	329892-724S	1	5
18	TUNER PCB AV35 CONSOLE, WWiP, JP	329892-824S	1	5
19	SERVICE PCB, 2ND ZONE, AV35 US/EU CONSOLE	329923-001S	1	
19	SERVICE PCB, 2ND ZONE, AV35 JAPAN CONSOLE	329924-001S	1	
20	BRACKET, REAR	317060-0001	1	
21	GLOBAL SHIELD, BOTTOM	317057-0010	1	
22	LABEL, IR	324530-0010	1	
23	SCREW, TAPP, 4-16X.38, PAN, XREC	288372-006	14	
24	REAR PANEL, WITH DOC LABEL, AV35	317061-0110	1	
25	AV35 ENDCAP/INSERT ASSEMBLY, LEFT	329958-1010	1	
26	AV35 ENDCAP/INSERT ASSEMBLY, RIGHT	329958-1020	1	
27	BASE, CONSOLE	317043-0001	1	
28	SERVICE PCB, IR-BLAST, V/T CONSOLE	329835-001S	1	
29	SERVICE PCB, FRONT JACK, V/T CONSOLE	329833-001S	1	
30	SERVICE PCB, BUTTON, V/T CONSOLE	329922-001S	1	
31	IR BEZEL/LIGHT PIPE ASSY,V/T/M CONSOLE	329960-0010	1	
32	SCREW, 6-13X.38, PAN, XREC/SQ.	288374-006	8	
33	PIN, LEFT	317049-0001	1	
34	MAGNET, DOOR	317056-0001	1	
35	STRIKER, CLIP, DOOR	322203-0001	1	
38	SPRING, TORSION	317051-0001	1	
39	DOOR ASSEMBLY, V/T/M CONSOLE	329959-0010	1	
40	DAMPER GEAR/RIGHT PIN ASSY V/T/M CONSOLE	329961-0010	1	
41	SCREW, TAPP, 8-11X1, PAN, XREC/SQ	289388-016	6	
42	FOOT, FOAM	323386-0001	6	
43	BRACKET, BUTTON TREE	317074-0001	1	
44	BUTTON TREE W/LIGHT PIPE	324524-0010	1	
45	FOAM, BUTTON ASSEMBLY	323538-0001	1	

Note 7. When replacing the Main PCB for Non-US units, the console variant needs to be set to show the proper language selection. Refer to page 67 Setting the Console's Product, Region Variant

AV20 Variant
Main Assembly Part List

No FM
No Bose Link Out
No Ipod Connector

Refer to Figure 1 Main Assembly Exploded View on page 12

Item Number	Description	Material Number	QTY	Note
1 - 2 3 4 5 6 7 8 9	TOP COVER ASSEMBLY, AV20 CONTAINS: 317040-2010 COVER, TOP, AV20 317078-0010 NAMEPLATE, LOGO,BOSE 317041-0001 BEZEL, VENT 324420-0020 COVER, SPACER 317058-0010 GLOBAL SHIELD, TOP 328484-0010 PAD, ELECTRICAL & THERMAL CONDUCTIVE 349248-0010 HEATSINK 289391-008 SCREW,6-32X1/2,THREAD ROLLING 323016-0001 BRACKET, MAIN	329929-2010	1	
10	PAD, THERMAL	317045-0001 or -0002	1	
11	CABLE, FFC, 50 COND (AUX TO MAIN PCB)	317142-50080	1	
12	CABLE, FFC, 24 COND, 80MM (MAIN TO ZONE 2 PCB)	317145-24080	1	
13	CABLE, DISCRETE, 2 COND, 115MM	317147-02115	1	
14	CABLE, FFC, 13 COND (AUX TO IR PCB)	317144-13100	1	
15	CABLE, FFC, 24 COND, OPPOSE, 155MM (MAIN TO AV PCB)	324514-24155	1	
16	CABLE, FFC, 9 COND, (AUX TO BUTTON PCB)	317146-09145	1	
17	SERVICE SLAB, MAIN PCB, T10/20 CONSOLE	327054-424S	1	7
18	SERVICE SLAB, AUX PCB, AV20 CONSOLE	329892-424S	1	
19	SERVICE PCB, 2ND ZONE, AV20 JAPAN CONSOLE	329924-001S	1	
20	BRACKET, REAR	317060-0001	1	
21	GLOBAL SHIELD, BOTTOM	317057-0010	1	
22	LABEL, IR	324530-0010	1	
23	SCREW, TAPP, 4-16X.38, PAN, XREC	288372-006	14	
24	317061-0120 REAR PANEL, AV20	317061-0120 or -0220	1	
25	T10/20 ENDCAP/INSERT ASSEMBLY, LEFT	329958-2010	1	
26	T10/20 ENDCAP/INSERT ASSEMBLY, RIGHT	329958-2020	1	
27	BASE, CONSOLE	317043-0001	1	
28	SERVICE PCB, I R-BLAST, V/T CONSOLE	329835-001S	1	
29	SERVICE PCB, FRONT JACK, V/T CONSOLE	329833-001S	1	
30	SERVICE PCB, BUTTON, V/T CONSOLE	329922-001S	1	
31	IR BEZEL/LIGHT PIPE ASSY,V/T/M CONSOLE	329960-0010	1	
32	SCREW, 6-13X.38, PAN, XREC/SQ.	288374-006	8	
33	PIN, LEFT	317049-0001	1	
34	MAGNET, DOOR	317056-0001	1	
35	STRIKER, CLIP, DOOR	322203-0001	1	
38	SPRING, TORSION	317051-0001	1	
39	DOOR ASSEMBLY, V/T/M CONSOLE	329959-0010	1	
40	DAMPER GEAR/RIGHT PIN ASSY V/T/M CONSOLE	329961-0010	1	
41	SCREW, TAPP, 8-11X1, PAN, XREC/SQ	289388-016	6	
42	FOOT, FOAM	323386-0001	6	
43	BRACKET, BUTTON TREE	317074-0001	1	
44	BUTTON TREE W/LIGHT PIPE	324524-0010	1	
45	FOAM, BUTTON ASSEMBLY	323538-0001	1	

Note 7. When replacing the Main PCB for Non-US units, the console variant needs to be set to show the proper language selection. Refer to page 67 Setting the Console's Product, Region Variant

AVM Variant
Main Assembly Part List

No FM
No Bose Link Out
Ipod Connector
A/V Out to Monitor

Refer to Figure 1 Main Assembly Exploded View on page 12

Item Number	Description	Material Number	QTY	Note
1	TOP COVER ASSEMBLY, AVM	329929-3010	1	
	CONTAINS:			
-	317040-3010 COVER, TOP, AVM		1	
2	317078-0010 NAMEPLATE, LOGO,BOSE		1	
3	317041-0001 BEZEL, VENT		1	
4	324420-0020 COVER, SPACER		1	
5	317058-0010 GLOBAL SHIELD, TOP		1	
6	328484-0010 PAD, ELECTRICAL & THERMAL CONDUCTIVE		1	
7	349248-0010 HEATSINK		1	
8	289391-008 SCREW,6-32X1/2,THREAD ROLLING		9	
9	323016-0001 BRACKET, MAIN		1	
10	PAD, THERMAL	317045-0001 or -0002	1	
11	CABLE, FFC, 50 COND (AUX TO MAIN PCB)	317142-50080	1	
12	CABLE, FFC, 24 COND, 80MM (MAIN TO ZONE 2 PCB)	317145-24080	1	
13	CABLE, DISCRETE, 2 COND, 115MM	317147-02115	1	
14	CABLE, FFC, 13 COND (AUX TO IR PCB)	317144-13100	1	
15	CABLE, FFC, 24 COND, OPPOSE, 155MM (MAIN TO AV PCB)	324514-24155	1	
16	CABLE, FFC, 9 COND, (AUX TO BUTTON PCB)	317146-09145	1	
17	MAIN PCB, AVM CONSOLE	327054-524S	1	7, 8
	MAIN PCB, AVM CONSOLE, IP	350545-524S		
18	AUX PCB, AVM CONSOLE	329892-524S	1	8
	AUX PCB, AVM CONSOLE, IP	360131-924S		
	AUX PCB, AVM CONSOLE, IP, APAC	360131-524S		
19	SERVICE PCB, 2ND ZONE, AVM CONSOLE	329924-001S	1	
20	BRACKET, REAR	317060-0001	1	
21	GLOBAL SHIELD, BOTTOM	317057-0010	1	
22	LABEL, IR	324530-0010	1	
23	SCREW, TAPP, 4-16X.38, PAN, XREC	288372-006	14	
24	REAR PANEL, WITH DOC LABEL, AV35	317061-0110	1	
25	AVM ENDCAP/INSERT ASSEMBLY, LEFT	329958-3010	1	
26	AVM ENDCAP/INSERT ASSEMBLY, RIGHT	329958-3020	1	
27	BASE, CONSOLE	317043-0001	1	
28	SERVICE PCB, IR-BLAST, V/T CONSOLE	329835-001S	1	
29	SERVICE PCB, FRONT JACK, V/T CONSOLE	329833-001S	1	
30	SERVICE PCB, BUTTON, V/T CONSOLE	329922-001S	1	
31	IR BEZEL/LIGHT PIPE ASSY,V/T/M CONSOLE	329960-0010	1	
32	SCREW, 6-13X.38, PAN, XREC/SQ.	288374-006	8	
33	PIN, LEFT	317049-0001	1	
34	MAGNET, DOOR	317056-0001	1	
35	STRIKER, CLIP, DOOR	322203-0001	1	
38	SPRING, TORSION	317051-0001	1	
39	DOOR ASSEMBLY, V/T/M CONSOLE	329959-0010	1	
40	DAMPER GEAR/RIGHT PIN ASSY V/T/M CONSOLE	329961-0010	1	
41	SCREW, TAPP, 8-11X1, PAN, XREC/SQ	289388-016	6	
42	FOOT, FOAM	323386-0001	6	
43	BRACKET, BUTTON TREE	317074-0001	1	
44	BUTTON TREE W/LIGHT PIPE	324524-0010	1	
45	FOAM, BUTTON ASSEMBLY	323538-0001	1	

Note 7. When replacing the Main PCB for Non-US units, the console variant needs to be set to show the proper language selection. Refer to page 67 Setting the Console's Product, Region Variant
Note 8. When replacing a PCB in a AVM console, refer to page 6 to varify console type. Use PCBs with IP (iPhone) in the description for consoles sold with the VideoWave® II system.

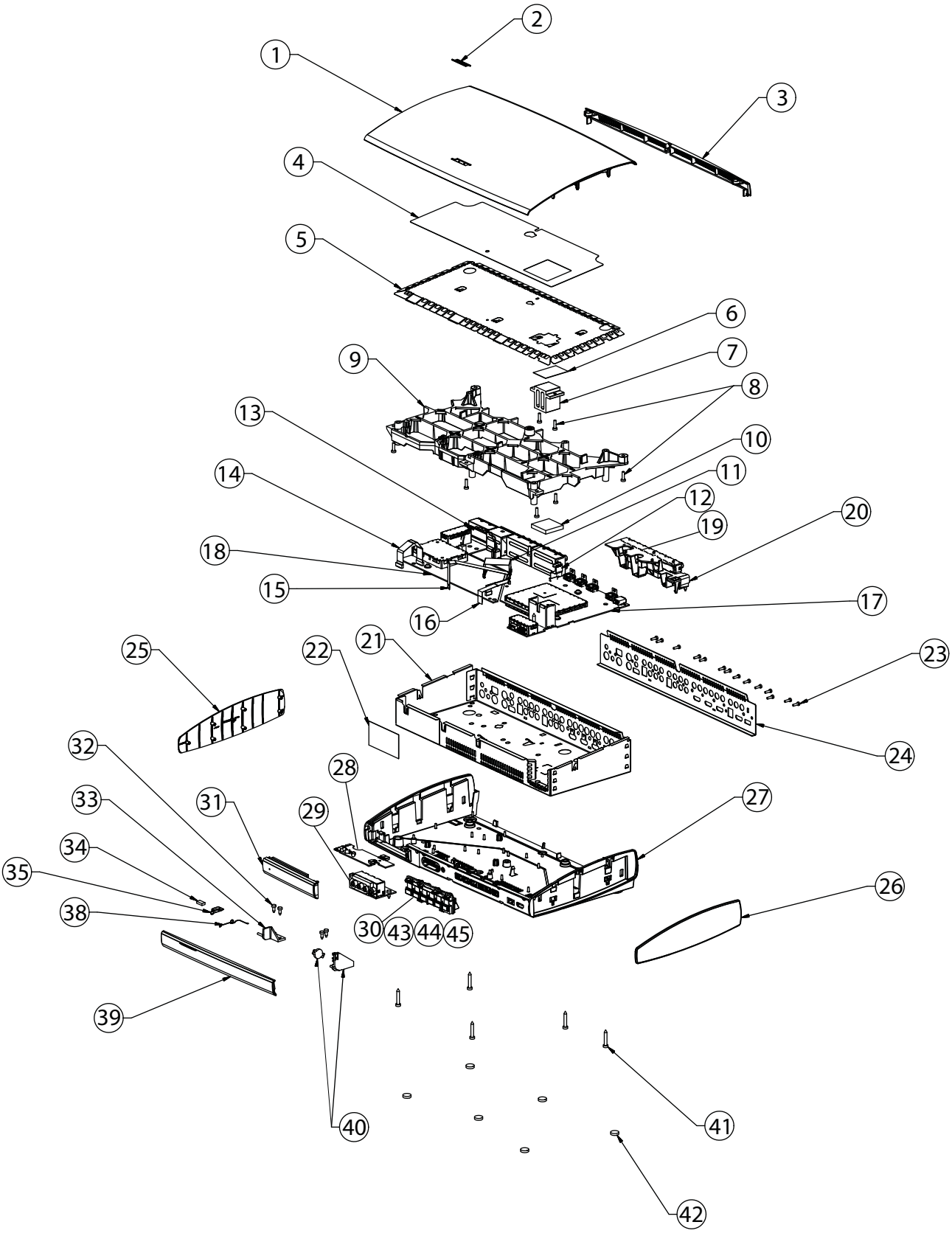

Figure 1. Main Assembly Exploded View

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R1000	220k , ARRAY, SMT, 4 POS, 5%	186433-2204	
R1001	220k , ARRAY, SMT, 4 POS, 5%	186433-2204	
R1002	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1003	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1004	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1005	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1006	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1007	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1021	8.2k, 0603, .1W, 5%	199403-822	
R1022	1.5K, 0603, SMD, 100MW, 5%	199403-152	
R1023	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1024	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1025	24.9 OHM, 0603, .1W, 1%	191465-24R9	
R1026	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1027	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1028	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R1032	24.9 OHM, 0603, .1W, 1%	191465-24R9	AV35
R1033	24.9 OHM, 0603, .1W, 1%	191465-24R9	AV35
R1034	24.9 OHM, 0603, .1W, 1%	191465-24R9	AV35
R1035	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R1036	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R1037	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R1041	100 OHM, 0603, .1W, 1%	191465-1000	
R1042	165 OHM, 0603, 1W, 1%	191465-1650	
R1043	47K, 0603, .1W, 5%	199403-473	
R1050	220 OHMS, 0603, .1W, 5%	199403-221	
R1051	220 OHMS, 0603, .1W, 5%	199403-221	
R1052	220 OHMS, 0603, .1W, 5%	199403-221	AV35
R2000	51 OHM, ARRAY, SMT, 4 POS, 5%,	186433-5104	
R2001	51 OHM, ARRAY, SMT, 4 POS, 5%,	186433-5104	
R2002	51 OHM, ARRAY, SMT, 4 POS, 5%,	186433-5104	
R2003	51 OHM, ARRAY, SMT, 4 POS, 5%,	186433-5104	
R2004	51 OHM, ARRAY, SMT, 4 POS, 5%,	186433-5104	
R2005	75.0 OHM, 0603, .1W, 1%	191465-75R0	
R2006	75.0 OHM, 0603, .1W, 1%	191465-75R0	
R2008	1.20K, 0603, .1W, 1%	191465-1201	
R2009	1.5K, 0603, .1W, 1%	191465-1501	
R2020	100 OHM, 0805, 1/10W, 5%	133626-1015	AV35
R2021	100 OHM, 0805, 1/10W, 5%	133626-1015	AV35
R2022	100 OHM, 0805, 1/10W, 5%	133626-1015	AV35

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R2023	100 OHM, 0805, 1/10W, 5%	133626-1015	
R2024	100 OHM, 0805, 1/10W, 5%	133626-1015	
R2025	100 OHM, 0805, 1/10W, 5%	133626-1015	
R3006	7.87K, 0603, .1W, 1%	191465-7871	
R3007	7.87K, 0603, .1W, 1%	191465-7871	
R3008	287 OHM, 0603, .1W, 1%	191465-2870	
R3009	22 OHMS, 0603, .1W, 5%	199403-220	
R3010	909 OHM, 0603, .1W, 1%	191465-9090	
R3011	169 OHM, 0603, .1W, 1%	191465-1690	
R3012	332 OHM, 0603, .1W, 1%	191465-3320	
R3013	332 OHM, 0603, .1W, 1%	191465-3320	
R3014	332 OHM, 0603, .1W, 1%	191465-3320	AV35
R3015	332 OHM, 0603, .1W, 1%	191465-3320	AV35
R3016	332 OHM, 0603, .1W, 1%	191465-3320	
R3017	332 OHM, 0603, .1W, 1%	191465-3320	
R3018	332 OHM, 0603, .1W, 1%	191465-3320	AV35
R3019	332 OHM, 0603, .1W, 1%	191465-3320	AV35
R3020	1.82K, 0603, 1/10W, 1%	191465-1821	
R3021	1.82K, 0603, 1/10W, 1%	191465-1821	
R3022	1.82K, 0603, 1/10W, 1%	191465-1821	
R3023	1.82K, 0603, 1/10W, 1%	191465-1821	
R3024	1.82K, 0603, 1/10W, 1%	191465-1821	AV35
R3025	1.82K, 0603, 1/10W, 1%	191465-1821	AV35
R3026	1.82K, 0603, 1/10W, 1%	191465-1821	AV35
R3027	1.82K, 0603, 1/10W, 1%	191465-1821	AV35
R3028	7.15K, 0603, .1W, 1%	191465-7151	
R3029	7.15K, 0603, .1W, 1%	191465-7151	
R3030	7.15K, 0603, .1W, 1%	191465-7151	AV35
R3031	7.15K, 0603, .1W, 1%	191465-7151	AV35
R3032	7.15K, 0603, .1W, 1%	191465-7151	
R3033	7.15K, 0603, .1W, 1%	191465-7151	
R3034	7.15K, 0603, .1W, 1%	191465-7151	AV35
R3035	7.15K, 0603, .1W, 1%	191465-7151	AV35
R4000	10K, 0603, .1W, 1%	191465-1002	
R4001	10K, 0603, .1W, 1%	191465-1002	
R4002	10K, 0603, .1W, 1%	191465-1002	
R4003	10K, 0603, .1W, 1%	191465-1002	
R4004	10K, 0603, .1W, 1%	191465-1002	
R4005	10K, 0603, .1W, 1%	191465-1002	
R4006	10K, 0603, .1W, 1%	191465-1002	

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R4007	10K, 0603, .1W, 1%	191465-1002	
R4008	10K, 0603, .1W, 1%	191465-1002	
R4009	10K, 0603, .1W, 1%	191465-1002	
R4010	1M, 0603, .1W, 1%	191465-1004	
R4011	1M, 0603, .1W, 1%	191465-1004	
R4012	1M, 0603, .1W, 1%	191465-1004	
R4013	1M, 0603, .1W, 1%	191465-1004	
R4014	1M, 0603, .1W, 1%	191465-1004	
R4015	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4016	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4017	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4018	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4019	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4020	49.9 OHM, 0603, .1W, 1%	191465-49R9	AV35
R4021	10K, 0603, .1W, 5%	199403-103	AV35
R4022	10K, 0603, .1W, 5%	199403-103	AV35
R4023	100K, 0603, .1W, 1%	191465-1003	AV35
R4024	100K, 0603, .1W, 1%	191465-1003	AV35
R4025	100K, 0603, .1W, 1%	191465-1003	AV35
R4026	100K, 0603, .1W, 1%	191465-1003	AV35
R4027	5.62K, 0603, 100MW, 1%	191465-5621	
R4028	15 OHM, 0603, .1W, 5%	199403-150	
R4029	15 OHM, 0603, .1W, 5%	199403-150	
R4031	1K, 0603, .1W, 5%	199403-102	
R4032	4.7K, 0603, .1W, 5%	199403-472	
R4040	22 OHM, 0805, 1/10W, 5%	133626-2205	
R4041	22 OHM, 0805, 1/10W, 5%	133626-2205	AV35
R4042	22 OHM, 0805, 1/10W, 5%	133626-2205	AV35
R4043	2.2K, 0603, .1W, 5%	199403-222	AV35
R4044	2.2K, 0603, .1W, 5%	199403-222	AV35
R5000	4.7K, 0603, .1W, 5%	199403-472	
R5001	2.0K, 0603, .1W, 5%	199403-202	AV35
R5002	4.7K, 0603, .1W, 5%	199403-472	AV35
R5003	1.00K, 0805, .125W, 1%	133625-1001	
R5004	1.00K, 0805, .125W, 1%	133625-1001	
R5005	100K, 0603, .1W, 1%	191465-1003	
R5006	100K, 0603, .1W, 1%	191465-1003	
R5007	1.00K, 0805, .125W, 1%	133625-1001	
R5008	1.00K, 0805, .125W, 1%	133625-1001	
R5009	100K, 0603, .1W, 1%	191465-1003	

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R5010	100K, 0603, .1W, 1%	191465-1003	
R5011	2K, 0603, .1W, 1%	191465-2001	
R5012	2K, 0603, .1W, 1%	191465-2001	
R5013	2K, 0603, .1W, 1%	191465-2001	
R5014	2K, 0603, .1W, 1%	191465-2001	
R5015	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R5016	2.0K, 0603, .1W, 5%	199403-202	
R5017	2.0K, 0603, .1W, 5%	199403-202	
R5018	100 OHM, 0603, .1W, 5%	199403-101	
R5019	47K, 0603, .1W, 5%	199403-473	
R5020	1K, 0603, .1W, 5%	199403-102	
R5030	1K, 0603, .1W, 5%	199403-102	
R5031	10K, ARRAY, SMT, 4 POS, 5%	186433-1034	
R5032	10K, ARRAY, SMT, 4 POS, 5%	186433-1034	AV35
R5033	2.2K, 0603, .1W, 5%	199403-222	
R5034	2.2K, 0603, .1W, 5%	199403-222	
R5035	1.00K, 0805, 1/10W, 5%	133626-1025	
R5036	1.00K, 0805, 1/10W, 5%	133626-1025	
R6000	3.3 OHM, 0603, SMD, 100mW	199403-3R3	
R6001	220k , ARRAY, SMT, 4 POS, 5%	186433-2204	
R6002	2K, 0603, .1W, 1%	191465-2001	
R6003	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R6004	3.3 OHM, 0603, SMD, 100mW	199403-3R3	
R6005	2K, 0603, .1W, 1%	191465-2001	
R6006	100 OHM, 0603, .1W, 1%	191465-1000	
R6007	76.8 OHM, 0603, .1W, 1%	191465-76R8	
R6008	100 OHM, 0603, .1W, 1%	191465-1000	
R6009	76.8 OHM, 0603, .1W, 1%	191465-76R8	
R6010	100 OHM, 0603, .1W, 5%	199403-101	
R6011	15K, 0603, .1W, 5%	199403-153	
R6012	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R6013	3.3 OHM, 0603, SMD, 100mW	199403-3R3	
R6014	2K, 0603, .1W, 1%	191465-2001	
R6015	100 OHM, 0603, .1W, 1%	191465-1000	
R6016	76.8 OHM, 0603, .1W, 1%	191465-76R8	
R6017	10K, 0603, .1W, 5%	199403-103	AV35
R6018	21.5k, 0603, .1W, 1%	191465-2152	AV35
R6019	21.5k, 0603, .1W, 1%	191465-2152	AV35
R6020	21.5k, 0603, .1W, 1%	191465-2152	AV35
R6022	10K, 0603, .1W, 1%	191465-1002	AV35

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R6023	10K, 0603, .1W, 1%	191465-1002	AV35
R6024	10K, 0603, .1W, 1%	191465-1002	AV35
R6030	100K, 0603, .1W, 1%	191465-1003	AV35
R6034	100K, 0603, .1W, 1%	191465-1003	AV35
R6038	100K, 0603, .1W, 1%	191465-1003	AV35
R7000	499 OHM, 0603, .1W, 1%	191465-4990	
R7001	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7002	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7003	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7004	47K, 0603, .1W, 5%	199403-473	
R7005	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7006	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7007	909 OHM, 0603, .1W, 1%	191465-9090	
R7008	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7009	47K, 0603, .1W, 5%	199403-473	
R7010	47K, 0603, .1W, 5%	199403-473	
R7012	47K, 0603, .1W, 5%	199403-473	
R7013	2.2K, 0603, .1W, 5%	199403-222	
R7014	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7015	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7016	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7017	2.2K, 0603, .1W, 5%	199403-222	
R7018	2.2K, 0603, .1W, 5%	199403-222	
R7019	2.2K, 0603, .1W, 5%	199403-222	
R7020	4.7K, 0603, .1W, 5%	199403-472	
R7021	4.7K, 0603, .1W, 5%	199403-472	
R7022	4.7K, 0603, .1W, 5%	199403-472	
R7023	909 OHM, 0603, .1W, 1%	191465-9090	
R7024	909 OHM, 0603, .1W, 1%	191465-9090	
R7025	909 OHM, 0603, .1W, 1%	191465-9090	
R7026	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7027	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7028	100 OHM, 0805, 1/10W, 5%	133626-1015	
R7029	4.7K, 0603, .1W, 5%	199403-472	
R8000	100K, 0603, .1W, 5%	199403-104	
R8001	1K, 0603, .1W, 5%	199403-102	
R8005	1K, 0603, .1W, 5%	199403-102	
R8006	2.2K, 0603, .1W, 5%	199403-222	
R8007	2.2K, 0603, .1W, 5%	199403-222	
R8008	10K, 0603, .1W, 5%	199403-103	

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R8009	470 OHMS, 0603, .1W, 5%	199403-471	
R8011	1K, 0603, .1W, 5%	199403-102	
R8012	470 OHMS, 0603, .1W, 5%	199403-471	
R8013	4.7K, 0603, .1W, 5%	199403-472	
R8014	4.7K, 0603, .1W, 5%	199403-472	
R8015	4.7K, 0603, .1W, 5%	199403-472	
R8016	220k , ARRAY, SMT, 4 POS, 5%	186433-2204	
R8018	15K, 0603, .1W, 5%	199403-153	
R8019	2.2K, 0603, .1W, 5%	199403-222	
R8020	2.2K, 0603, .1W, 5%	199403-222	
R8021	1.8K, 0603, SMD, 100MW, 5%	199403-182	
R8022	1.8K, 0603, SMD, 100MW, 5%	199403-182	
R8023	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R8025	4.7K, 0603, .1W, 5%	199403-472	
R8028	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R8032	4.7K, 0603, .1W, 5%	199403-472	
R8033	100 OHM, 0603, .1W, 5%	199403-101	
R8034	100 OHM, 0603, .1W, 5%	199403-101	
R8035	4.7K, 0603, .1W, 5%	199403-472	
R8036	4.7K, 0603, .1W, 5%	199403-472	
R8037	10K, 0603, .1W, 5%	199403-103	
R8038	10K, 0603, .1W, 5%	199403-103	
R8039	47K, 0603, .1W, 5%	199403-473	
R9000	100 OHM, 0805, 1/10W, 5%	133626-1015	
R9001	100 OHM, 0805, 1/10W, 5%	133626-1015	
R9002	100 OHM, 0805, 1/10W, 5%	133626-1015	
R9003	1K, 0603, .1W, 5%	199403-102	
R9004	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R9005	13K, 0603, .1W, 1%	191465-1302	
R9006	47.5 OHMS, 0603, .1W, 1%	191465-47R5	
R9007	1.5K, 0603, .1W, 1%	191465-1501	
R9008	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R9011	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R9012	47K, 0603, .1W, 5%	199403-473	
R10111	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R10222	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R10333	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R10444	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R10555	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R11004	4.7K, 0603, .1W, 5%	199403-472	

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R11005	4.7K, 0603, .1W, 5%	199403-472	
R11014	4.7K, 0603, .1W, 5%	199403-472	
R11023	2.0K, 0603, .1W, 5%	199403-202	
R11026	4.7K, 0603, .1W, 5%	199403-472	
R11029	2.0K, 0603, .1W, 5%	199403-202	
R12018	1K, 0603, .1W, 1%	191465-1001	
R12019	1K, 0603, .1W, 1%	191465-1001	
R12020	100 OHM, 0603, .1W, 5%	199403-101	
R12021	100 OHM, 0603, .1W, 5%	199403-101	
R13018	1K, 0603, .1W, 1%	191465-1001	
R13019	1K, 0603, .1W, 1%	191465-1001	
R13020	100 OHM, 0603, .1W, 5%	199403-101	
R13021	100 OHM, 0603, .1W, 5%	199403-101	
R14000	27 OHM, 0603, .1W, 5%	199403-270	
R15002	10K, 0603, .1W, 5%	199403-103	
R15003	10K, 0603, .1W, 5%	199403-103	
R15004	10K, 0603, .1W, 5%	199403-103	
R15006	220k , ARRAY, SMT, 4 POS, 5%	186433-2204	
R15011	1K, 0603, .1W, 5%	199403-102	
R15012	1K, 0603, .1W, 5%	199403-102	
R15015	22 OHMS, 0603, .1W, 5%	199403-220	
R15016	22 OHMS, 0603, .1W, 5%	199403-220	
R15018	121K, 0603, .1W, 1%	191465-1213	
R15019	121K, 0603, .1W, 1%	191465-1213	
R15020	4.7K, ARRAY, SMT, 4 POS, 5%	186433-4724	
R15021	10K, 0603, .1W, 5%	199403-103	
R15022	10K, 0603, .1W, 5%	199403-103	
R15023	10K, 0603, .1W, 5%	199403-103	
R15024	11.3K, 0603, .1W, 1%	191465-1132	
R15025	220 OHMS, 0603, .1W, 5%	199403-221	
R15026	220 OHMS, 0603, .1W, 5%	199403-221	
R15027	34.8K, 0603, .1W, 1%	191465-3482	
R16000	100K, 0603, .1W, 5%	199403-104	
R16001	33K, 0603, .1W, 5%	199403-333	
R16002	10 OHM, 0603, .1W, 5%	199403-100	
R16003	0.10 OHM, 0805, 1/8W, 5%	304926-R10	
R16004	287 OHM, 0603, .1W, 1%	191465-2870	
R16005	2K, 0603, .1W, 1%	191465-2001	
R16006	10K, 0603, .1W, 1%	191465-1002	
R16007	1.62K, 0603, .1W, 1%	191465-1621	

AV20/35 Main PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R16008	121K, 0603, .1W, 1%	191465-1213	
R16011	1.05K, 0603, .1W, 1%	191465-1051	
R16012	196 OHMS, 0603, .1W, 1%	191465-1960	
R16013	2.0K, 0603, .1W, 5%	199403-202	
R16014	0.10 OHM, 0805, 1/8W, 5%	304926-R10	
R17000	2.2K, 0603, .1W, 5%	199403-222	
R17001	3.3K, 0603, .1W, 5%,	199403-332	
R17003	10 OHM, 0603, .1W, 1%	191465-10R0	
R17005	6.49 K, 0603, .1W, 1%	191465-6491	
R17006	475 OHM, 0603, .1W, 1%	191465-4750	
R17007	1K, 0603, .1W, 1%	191465-1001	
R17008	4.70K, 0603, .1W, 1%	191465-4701	
R17010	7.5K, 0603, .1W, 1%	191465-7501	
R17011	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R17012	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R17013	4.7 OHM, 0603, .1W, 5%	199403-4R7	
R17014	4.70K, 0603, .1W, 1%	191465-4701	
R17015	4.22K, 0603, .1W, 1%	191465-4221	
R17016	4.70K, 0603, .1W, 1%	191465-4701	
R17017	1.62K, 0603, .1W, 1%	191465-1621	
R17018	4.70K, 0603, .1W, 1%	191465-4701	
R17019	10K, 0603, .1W, 1%	191465-1002	
R17020	10 OHM, 0603, .1W, 5%	199403-100	
R17021	10 OHM, 0603, .1W, 5%	199403-100	
R17022	10 OHM, 0603, .1W, 5%	199403-100	
R17023	2.49K, 0603, .1W, 1%	191465-2491	
R17024	2.49K, 0603, .1W, 1%	191465-2491	
R17025	2.49K, 0603, .1W, 1%	191465-2491	

Capacitors

Reference Designator	Description	Material Number	Note
C1000	0.10uF, 0603, 16V, 5%	258498-104	
C1001	0.10uF, 0603, 16V, 5%	258498-104	
C1002	0.10uF, 0603, 16V, 5%	258498-104	
C1003	1000PF, 0603, COG, 50V, 5%	188454-102	
C1006	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C1009	0.10uF, 0603, 16V, 5%	258498-104	AV35
C1010	0.10uF, 0603, 16V, 5%	258498-104	AV35
C1011	0.10uF, 0603, 16V, 5%	258498-104	AV35

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Capacitors

Reference Designator	Description	Material Number	Note
C1012	0.10uF, 0603, 16V, 5%	258498-104	
C1013	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1014	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1017	0.10uF, 0603, 16V, 5%	258498-104	
C1018	0.10uF, 0603, 16V, 5%	258498-104	
C1019	0.10uF, 0603, 16V, 5%	258498-104	
C1020	1000PF, 0603, COG, 50V, 5%	188454-102	
C1021	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1022	330pF, X7R, 0402, 50V, 5%	268366-331	
C1023	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1024	330pF, X7R, 0402, 50V, 5%	268366-331	
C1025	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1026	330pF, X7R, 0402, 50V, 5%	268366-331	
C1027	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1028	330pF, X7R, 0402, 50V, 5%	268366-331	
C1029	10uF, EL, 85, 16V, 20%	177902-100C	
C1030	0.10uF, 0603, 16V, 5%	258498-104	
C1031	1000PF, 0603, COG, 50V, 5%	188454-102	
C1032	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1033	330pF, X7R, 0402, 50V, 5%	268366-331	
C1034	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1035	330pF, X7R, 0402, 50V, 5%	268366-331	
C1036	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1037	330pF, X7R, 0402, 50V, 5%	268366-331	
C1038	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1039	330pF, X7R, 0402, 50V, 5%	268366-331	
C1040	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1041	330pF, X7R, 0402, 50V, 5%	268366-331	
C1042	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1043	330pF, X7R, 0402, 50V, 5%	268366-331	
C1044	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1045	330pF, X7R, 0402, 50V, 5%	268366-331	
C1046	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1047	330pF, X7R, 0402, 50V, 5%	268366-331	
C1048	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1049	330pF, X7R, 0402, 50V, 5%	268366-331	
C1050	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1051	330pF, X7R, 0402, 50V, 5%	268366-331	
C1052	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1053	330pF, X7R, 0402, 50V, 5%	268366-331	

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Capacitors

Reference Designator	Description	Material Number	Note
C1054	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1055	330pF, X7R, 0402, 50V, 5%	268366-331	
C1056	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1057	330pF, X7R, 0402, 50V, 5%	268366-331	
C1058	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1059	330pF, X7R, 0402, 50V, 5%	268366-331	
C1060	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1061	330pF, X7R, 0402, 50V, 5%	268366-331	
C1062	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C1063	330pF, X7R, 0402, 50V, 5%	268366-331	
C1066	.01uF, 0603, X7R, 50V	191470-103	
C1067	1000PF, 0603, COG, 50V, 5%	188454-102	AV35
C1073	0.10uF, 0603, 16V, 5%	258498-104	
C1074	0.10uF, 0603, 16V, 5%	258498-104	
C1075	0.10uF, 0603, 16V, 5%	258498-104	
C1078	0.10uF, 0603, 16V, 5%	258498-104	
C1080	0.10uF, 0603, 16V, 5%	258498-104	
C1081	0.10uF, 0603, 16V, 5%	258498-104	
C1082	0.10uF, 0603, 16V, 5%	258498-104	
C2001	0.10uF, 0603, 16V, 5%	258498-104	AV35
C2003	1uF, EL, 85, 50V, 20%	177902-010H	AV35
C2004	1uF, EL, 85, 50V, 20%	177902-010H	
C2005	1uF, EL, 85, 50V, 20%	177902-010H	
C2006	1uF, EL, 85, 50V, 20%	177902-010H	AV35
C2007	1uF, EL, 85, 50V, 20%	177902-010H	
C2009	0.10uF, 0603, 16V, 5%	258498-104	
C2010	1.0uF, EL, BP, 85, 50V, 20%	259549-1R0H	
C2011	3.9PF, 0603, COG, 50V	188454-3R9	
C2012	1.0uF, EL, BP, 85, 50V, 20%	259549-1R0H	
C2013	10nF, X7R, 0402, 25V, 5%	268367-103	
C2014	0.10uF, 0603, 16V, 5%	258498-104	
C2015	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2016	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2017	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2018	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2019	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2020	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2021	1500PF, 0603, X7R, 50V	191470-152	
C2022	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2023	0.1uF, X7R, 0402, 16V, 10%	293702-104	

AV20/35 Main PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C2024	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2025	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2026	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2027	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2028	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2029	10nF, X7R, 0402, 25V, 5%	268367-103	
C2030	10uF, EL, 85, 16V, 20%	177902-100C	
C2031	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2032	47uF, EL, 85, 6.3V, 20%	177902-470J	
C2033	10nF, X7R, 0402, 25V, 5%	268367-103	
C2034	10nF, X7R, 0402, 25V, 5%	268367-103	
C2035	10nF, X7R, 0402, 25V, 5%	268367-103	
C2036	10nF, X7R, 0402, 25V, 5%	268367-103	
C2037	10nF, X7R, 0402, 25V, 5%	268367-103	
C2038	10nF, X7R, 0402, 25V, 5%	268367-103	
C2039	10nF, X7R, 0402, 25V, 5%	268367-103	
C2040	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2041	47uF, EL, 85, 6.3V, 20%	177902-470J	
C2042	10nF, X7R, 0402, 25V, 5%	268367-103	
C2043	10nF, X7R, 0402, 25V, 5%	268367-103	
C2044	10nF, X7R, 0402, 25V, 5%	268367-103	
C2045	10nF, X7R, 0402, 25V, 5%	268367-103	
C2046	10nF, X7R, 0402, 25V, 5%	268367-103	
C2047	10nF, X7R, 0402, 25V, 5%	268367-103	
C2048	10nF, X7R, 0402, 25V, 5%	268367-103	
C2049	10nF, X7R, 0402, 25V, 5%	268367-103	
C2050	10nF, X7R, 0402, 25V, 5%	268367-103	
C2051	22uF, EL, 85, 6.3V, 20%	177902-220J	
C2052	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2053	47uF, EL, 85, 6.3V, 20%	177902-470J	
C2054	10nF, X7R, 0402, 25V, 5%	268367-103	
C2055	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2057	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2058	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2059	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2060	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2061	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2062	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2063	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C2070	47PF, COG, 0402, 50V, 5%	268364-470	AV35

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Capacitors

Reference Designator	Description	Material Number	Note
C2071	47PF, COG, 0402, 50V, 5%	268364-470	AV35
C2072	47PF, COG, 0402, 50V, 5%	268364-470	AV35
C2073	47PF, COG, 0402, 50V, 5%	268364-470	
C2074	47PF, COG, 0402, 50V, 5%	268364-470	
C2075	47PF, COG, 0402, 50V, 5%	268364-470	
C3000	1uF, EL, 85, 50V, 20%	177902-010H	
C3001	.01uF, 0603, X7R, 50V	191470-103	
C3002	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C3003	1.0nF, X7R, 0402, 50V, 5%	268366-102	AV35
C3004	1.0nF, X7R, 0402, 50V, 5%	268366-102	AV35
C3005	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C3006	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C3007	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C3008	1.0nF, X7R, 0402, 50V, 5%	268366-102	AV35
C3009	1.0nF, X7R, 0402, 50V, 5%	268366-102	AV35
C3010	180pF, X7R, 0402, 5%	268366-181	
C3011	180pF, X7R, 0402, 5%	268366-181	
C3012	180pF, X7R, 0402, 5%	268366-181	AV35
C3013	180pF, X7R, 0402, 5%	268366-181	AV35
C3014	0.10uF, 0603, 16V, 5%	258498-104	
C3015	0.10uF, 0603, 16V, 5%	258498-104	AV35
C3016	10uF, EL, 85, 16V, 20%	177902-100C	
C3017	10uF, EL, 85, 16V, 20%	177902-100C	
C3018	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C3019	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C4000	0.10uF, 0603, 16V, 5%	258498-104	
C4001	10uF, EL, 85, 16V, 20%	177902-100C	
C4002	10uF, EL, 85, 16V, 20%	177902-100C	
C4003	10uF, EL, 85, 16V, 20%	177902-100C	
C4004	10uF, EL, 85, 16V, 20%	177902-100C	
C4005	10uF, EL, 85, 16V, 20%	177902-100C	
C4006	0.10uF, 0603, 16V, 5%	258498-104	AV35
C4007	0.10uF, 0603, 16V, 5%	258498-104	AV35
C4008	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4009	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4010	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4011	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4012	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4013	47uF, EL, 85, 16V, 20%	177902-470C	AV35
C4014	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35

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Capacitors

Reference Designator	Description	Material Number	Note
C4015	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C4016	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C4017	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C4018	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C4019	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C4020	180pF, X7R, 0402, 5%	268366-181	
C4026	1.0nF, X7R, 0402, 50V, 5%	268366-102	AV35
C4027	10nF, X7R, 0402, 25V, 5%	268367-103	AV35
C4028	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C4029	0.10uF, 0603, 16V, 5%	258498-104	
C4030	100pF, COG, 0402, 5%, 50V	268364-101	
C4031	100pF, COG, 0402, 5%, 50V	268364-101	
C4033	100pF, COG, 0402, 5%, 50V	268364-101	
C4034	100pF, COG, 0402, 5%, 50V	268364-101	
C4035	100pF, COG, 0402, 5%, 50V	268364-101	
C4036	100pF, COG, 0402, 5%, 50V	268364-101	
C4037	100pF, COG, 0402, 5%, 50V	268364-101	
C5000	0.10uF, 0603, 16V, 5%	258498-104	
C5001	0.10uF, 0603, 16V, 5%	258498-104	AV35
C5002	330uF EL, SMD, 105, 10V, 20%	306169-331AH	
C5003	180PF, 0603, X7R, 50V	191470-181	
C5004	180PF, 0603, X7R, 50V	191470-181	
C5005	0.10uF, 0603, 16V, 5%	258498-104	
C5006	0.10uF, 0603, 16V, 5%	258498-104	AV35
C5008	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C5009	10uF, EL, 85, 16V, 20%	177902-100C	
C5010	10uF, EL, 85, 16V, 20%	177902-100C	
C5011	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C5012	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C5015	180PF, 0603, X7R, 50V	191470-181	
C5016	180PF, 0603, X7R, 50V	191470-181	
C5017	10uF, EL, 85, 16V, 20%	177902-100C	
C5018	10uF, EL, 85, 16V, 20%	177902-100C	
C5019	0.10uF, 0603, 16V, 5%	258498-104	
C5020	10uF, EL, 85, 16V, 20%	177902-100C	
C5021	10uF, EL, 85, 16V, 20%	177902-100C	
C5022	0.10uF, 0603, 16V, 5%	258498-104	
C5023	10uF, EL, 85, 16V, 20%	177902-100C	
C5024	0.10uF, 0603, 16V, 5%	258498-104	
C5025	10uF, EL, 85, 16V, 20%	177902-100C	

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Capacitors

Reference Designator	Description	Material Number	Note
C5026	10uF, EL, 85, 16V, 20%	177902-100C	
C5027	0.10uF, 0603, 16V, 5%	258498-104	
C5028	10uF, EL, 85, 16V, 20%	177902-100C	
C5029	10uF, EL, 85, 16V, 20%	177902-100C	
C5030	0.10uF, 0603, 16V, 5%	258498-104	
C5031	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C5032	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C5033	330pF, x7r, 0402, 50V, 5%	268366-331	
C5034	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C5035	330pF, x7r, 0402, 50V, 5%	268366-331	
C5036	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C5037	68pF, COG, 0402, 50V, 5%	268364-680	
C5038	68pF, COG, 0402, 50V, 5%	268364-680	
C5039	330pF, x7r, 0402, 50V, 5%	268366-331	
C5040	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C5050	0.10uF, 0603, 16V, 5%	258498-104	
C5051	330pF, x7r, 0402, 50V, 5%	268366-331	
C5052	330pF, x7r, 0402, 50V, 5%	268366-331	
C5053	330pF, x7r, 0402, 50V, 5%	268366-331	
C5054	330pF, x7r, 0402, 50V, 5%	268366-331	
C5055	330pF, x7r, 0402, 50V, 5%	268366-331	
C5056	330pF, x7r, 0402, 50V, 5%	268366-331	
C5057	330pF, x7r, 0402, 50V, 5%	268366-331	
C5058	330pF, x7r, 0402, 50V, 5%	268366-331	
C6000	0.10uF, 0603, 16V, 5%	258498-104	
C6001	0.10uF, 0603, 16V, 5%	258498-104	
C6002	56 PF, 0603, COG, 50V, 5%	188454-560	
C6003	0.10uF, 0603, 16V, 5%	258498-104	
C6004	47PF, 0603, COG, 50V, 5%	188454-470	
C6005	0.10uF, 0603, 16V, 5%	258498-104	
C6006	10uF, EL, 85, 16V, 20%	177902-100C	
C6007	.01uF, 0603, X7R, 50V	191470-103	
C6008	0.10uF, 0603, 16V, 5%	258498-104	
C6009	10uF, EL, 85, 16V, 20%	177902-100C	
C6010	.01uF, 0603, X7R, 50V	191470-103	
C6011	0.10uF, 0603, 16V, 5%	258498-104	
C6012	10uF, EL, 85, 16V, 20%	177902-100C	
C6013	0.10uF, 0603, 16V, 5%	258498-104	
C6014	56 PF, 0603, COG, 50V, 5%	188454-560	
C6015	.01uF, 0603, X7R, 50V	191470-103	

AV20/35 Main PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C6016	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C6017	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C6018	10uF, EL, 85, 16V, 20%	177902-100C	AV35
C6020	100pF, COG, 0402, 5%, 50V	268364-101	AV35
C6021	330pF, x7r, 0402, 50V, 5%	268366-331	AV35
C6024	2.2nF, X7R, 0402, 25V, 5%	268367-222	AV35
C6025	330pF, x7r, 0402, 50V, 5%	268366-331	AV35
C6026	330pF, x7r, 0402, 50V, 5%	268366-331	AV35
C6030	0.10uF, 0603, 16V, 5%	258498-104	AV35
C6040	39PF, 0603, COG, 50V, 5%	188454-390	
C6041	56 PF, 0603, COG, 50V, 5%	188454-560	
C6042	56 PF, 0603, COG, 50V, 5%	188454-560	
C7006	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C7020	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C7021	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C7022	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C8000	0.10uF, 0603, 16V, 5%	258498-104	
C8001	0.10uF, 0603, 16V, 5%	258498-104	
C8002	330pF, x7r, 0402, 50V, 5%	268366-331	
C9001	10uF, EL, 85, 16V, 20%	177902-100C	
C9004	3.3nF, X7R, 0402, 25V, 5%	268367-332	
C9005	1.0nF, X7R, 0402, 50V, 5%	268366-102	
C9010	220uF, EL, SMD, 105, 35V, 20%	306169-221VH	
C9011	220uF, EL, SMD, 105, 35V, 20%	306169-221VH	AV35
C11005	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C11006	0.10uF, 0603, 16V, 5%	258498-104	
C11007	0.10uF, 0603, 16V, 5%	258498-104	
C11009	0.10uF, 0603, 16V, 5%	258498-104	
C11019	0.10uF, 0603, 16V, 5%	258498-104	
C11020	0.10uF, 0603, 16V, 5%	258498-104	
C12000	10uF, EL, 85, 16V, 20%	177902-100C	
C12001	330pF, x7r, 0402, 50V, 5%	268366-331	
C12002	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C12003	330pF, x7r, 0402, 50V, 5%	268366-331	
C12004	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C12005	0.10uF, 0603, 16V, 5%	258498-104	
C12006	0.10uF, 0603, 16V, 5%	258498-104	
C12007	220uF, EL, SMD, 105, 6.3V, 20%	306169-221LF	
C12008	220uF, EL, SMD, 105, 6.3V, 20%	306169-221LF	
C12009	0.10uF, 0603, 16V, 5%	258498-104	

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Capacitors

Reference Designator	Description	Material Number	Note
C12010	0.10uF, 0603, 16V, 5%	258498-104	
C12011	0.10uF, 0603, 16V, 5%	258498-104	
C12012	0.10uF, 0603, 16V, 5%	258498-104	
C12013	0.10uF, 0603, 16V, 5%	258498-104	
C12014	0.10uF, 0603, 16V, 5%	258498-104	
C12015	0.10uF, 0603, 16V, 5%	258498-104	
C12016	0.10uF, 0603, 16V, 5%	258498-104	
C12017	0.10uF, 0603, 16V, 5%	258498-104	
C12018	0.10uF, 0603, 16V, 5%	258498-104	
C12019	0.10uF, 0603, 16V, 5%	258498-104	
C12020	0.10uF, 0603, 16V, 5%	258498-104	
C12021	0.10uF, 0603, 16V, 5%	258498-104	
C12022	0.10uF, 0603, 16V, 5%	258498-104	
C12025	100uF, CER, 1206, X5R, 6.3V	291432-107	
C13000	10uF, EL, 85, 16V, 20%	177902-100C	
C13001	330pF, X7R, 0402, 50V, 5%	268366-331	
C13002	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C13003	330pF, X7R, 0402, 50V, 5%	268366-331	
C13004	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C13005	0.10uF, 0603, 16V, 5%	258498-104	
C13006	0.10uF, 0603, 16V, 5%	258498-104	
C13007	220uF, EL, SMD, 105, 6.3V, 20%	306169-221LF	
C13008	220uF, EL, SMD, 105, 6.3V, 20%	306169-221LF	
C13009	0.10uF, 0603, 16V, 5%	258498-104	
C13010	0.10uF, 0603, 16V, 5%	258498-104	
C13011	0.10uF, 0603, 16V, 5%	258498-104	
C13012	0.10uF, 0603, 16V, 5%	258498-104	
C13013	0.10uF, 0603, 16V, 5%	258498-104	
C13014	0.10uF, 0603, 16V, 5%	258498-104	
C13015	0.10uF, 0603, 16V, 5%	258498-104	
C13016	0.10uF, 0603, 16V, 5%	258498-104	
C13017	0.10uF, 0603, 16V, 5%	258498-104	
C13018	0.10uF, 0603, 16V, 5%	258498-104	
C13019	0.10uF, 0603, 16V, 5%	258498-104	
C13020	0.10uF, 0603, 16V, 5%	258498-104	
C13021	0.10uF, 0603, 16V, 5%	258498-104	
C13022	0.10uF, 0603, 16V, 5%	258498-104	
C13025	100uF, CER, 1206, X5R, 6.3V	291432-107	
C14000	330pF, X7R, 0402, 50V, 5%	268366-331	
C14001	330pF, X7R, 0402, 50V, 5%	268366-331	

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Reference Designator	Description	Material Number	Note
C14002	330pF, X7R, 0402, 50V, 5%	268366-331	
C14003	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14004	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14005	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14006	330pF, X7R, 0402, 50V, 5%	268366-331	
C14007	330pF, X7R, 0402, 50V, 5%	268366-331	
C14008	330pF, X7R, 0402, 50V, 5%	268366-331	
C14009	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14010	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14011	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14012	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14013	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14014	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14015	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14016	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14017	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14018	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14019	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14020	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14021	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14022	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14023	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14024	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14025	330pF, X7R, 0402, 50V, 5%	268366-331	
C14026	330pF, X7R, 0402, 50V, 5%	268366-331	
C14027	330pF, X7R, 0402, 50V, 5%	268366-331	
C14028	330pF, X7R, 0402, 50V, 5%	268366-331	
C14029	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14030	330pF, X7R, 0402, 50V, 5%	268366-331	
C14031	330pF, X7R, 0402, 50V, 5%	268366-331	
C14032	330pF, X7R, 0402, 50V, 5%	268366-331	
C14033	330pF, X7R, 0402, 50V, 5%	268366-331	
C14034	330pF, X7R, 0402, 50V, 5%	268366-331	
C14035	330pF, X7R, 0402, 50V, 5%	268366-331	
C14036	330pF, X7R, 0402, 50V, 5%	268366-331	
C14037	330pF, X7R, 0402, 50V, 5%	268366-331	
C14038	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14039	330pF, X7R, 0402, 50V, 5%	268366-331	
C14040	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14042	0.1uF, X7R, 0402, 16V, 10%	293702-104	

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Reference Designator	Description	Material Number	Note
C14043	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14044	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14045	330pF, X7R, 0402, 50V, 5%	268366-331	
C14046	330pF, X7R, 0402, 50V, 5%	268366-331	
C14047	330pF, X7R, 0402, 50V, 5%	268366-331	
C14048	330pF, X7R, 0402, 50V, 5%	268366-331	
C14049	330pF, X7R, 0402, 50V, 5%	268366-331	
C14050	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C14051	330pF, X7R, 0402, 50V, 5%	268366-331	
C14052	47uF, EL, 85, 6.3V, 20%	177902-470J	
C14061	100uF, CER, 1206, X5R, 6.3V	291432-107	
C15001	22uF, EL, 85, 6.3V, 20%	177902-220J	
C15002	330pF, X7R, 0402, 50V, 5%	268366-331	
C15003	330pF, X7R, 0402, 50V, 5%	268366-331	
C15004	330pF, X7R, 0402, 50V, 5%	268366-331	
C15005	330pF, X7R, 0402, 50V, 5%	268366-331	
C15006	330pF, X7R, 0402, 50V, 5%	268366-331	
C15007	330pF, X7R, 0402, 50V, 5%	268366-331	
C15008	330pF, X7R, 0402, 50V, 5%	268366-331	
C15009	330pF, X7R, 0402, 50V, 5%	268366-331	
C15010	330pF, X7R, 0402, 50V, 5%	268366-331	
C15011	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15012	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15013	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15014	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15015	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15016	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15017	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15018	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15019	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15020	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15021	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15022	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15023	330pF, X7R, 0402, 50V, 5%	268366-331	
C15024	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15025	330pF, X7R, 0402, 50V, 5%	268366-331	
C15026	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15027	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15028	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15029	0.1uF, X7R, 0402, 16V, 10%	293702-104	

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Capacitors

Reference Designator	Description	Material Number	Note
C15030	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15031	330pF, X7R, 0402, 50V, 5%	268366-331	
C15032	330pF, X7R, 0402, 50V, 5%	268366-331	
C15033	330pF, X7R, 0402, 50V, 5%	268366-331	
C15034	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15035	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15036	330pF, X7R, 0402, 50V, 5%	268366-331	
C15037	330pF, X7R, 0402, 50V, 5%	268366-331	
C15038	330pF, X7R, 0402, 50V, 5%	268366-331	
C15039	330pF, X7R, 0402, 50V, 5%	268366-331	
C15040	330pF, X7R, 0402, 50V, 5%	268366-331	
C15042	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15043	220uF, EL, SMD, 105, 6.3V, 20%	306169-221LF	
C15044	330pF, X7R, 0402, 50V, 5%	268366-331	
C15045	10PF, 0603, COG, 50V, 5%	188454-100	
C15046	12PF, 0603, COG, 50V, 5%	188454-120	
C15047	0.10uF, 0603, 16V, 5%	258498-104	
C15048	0.10uF, 0603, 16V, 5%	258498-104	
C15049	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C15050	0.10uF, 0603, 16V, 5%	258498-104	
C15051	0.10uF, 0603, 16V, 5%	258498-104	
C15052	0.10uF, 0603, 16V, 5%	258498-104	
C15053	47PF, 0603, COG, 50V, 5%	188454-470	
C15054	0.10uF, 0603, 16V, 5%	258498-104	
C15055	0.10uF, 0603, 16V, 5%	258498-104	
C16000	470PF, 0603, X7R, 50V	191470-471	
C16001	0.10uF, 0603, 16V, 5%	191471-474	
C16002	.01uF, 0603, X7R, 50V	191470-103	
C16003	100 PF, 0603, X7R, 50V	191470-101	
C16004	220uF, EL, SMD, 105, 35V, 20%	306169-221VH	
C16005	0.1uF, X7R, 0603, 10%, 50V	304991-104	
C16006	220uF, EL, SMD, 105, 35V, 20%	306169-221VH	
C16007	0.1uF, X7R, 0603, 10%, 50V	304991-104	
C16008	0.10uF, 0603, 16V, 5%	258498-104	
C16012	47uF, EL, 85, 6.3V, 20%	177902-470J	
C16013	0.10uF, 0603, 16V, 5%	258498-104	
C16014	47uF, EL, 85, 6.3V, 20%	177902-470J	
C16016	0.10uF, 0603, 16V, 5%	258498-104	
C16017	47uF, EL, 85, 6.3V, 20%	177902-470J	
C16018	47uF, EL, 85, 6.3V, 20%	177902-470J	

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Capacitors

Reference Designator	Description	Material Number	Note
C16019	470PF, 0603, X7R, 50V	191470-471	
C16020	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17000	47PF, 0603, COG, 50V, 5%	188454-470	
C17001	10PF, 0603, COG, 50V, 5%	188454-100	
C17002	47PF, 0603, COG, 50V, 5%	188454-470	
C17003	.01uF, 0603, X7R, 50V	191470-103	
C17004	.01uF, 0603, X7R, 50V	191470-103	
C17005	.01uF, 0603, X7R, 50V	191470-103	
C17006	0.10uF, 0603, 16V, 5%	258498-104	
C17007	.01uF, 0603, X7R, 50V	191470-103	
C17008	.01uF, 0603, X7R, 50V	191470-103	
C17009	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17010	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17011	0.10uF, 0603, 16V, 5%	258498-104	
C17012	1000PF, 0603, COG, 50V, 5%	188454-102	
C17013	220uF, EL, SMD, 105, 50V, 20%	306169-221HJ	
C17014	0.10uF, 0603, 16V, 5%	258498-104	
C17015	220uF, EL, SMD, 105, 50V, 20%	306169-221HJ	
C17016	0.10uF, 0603, 16V, 5%	258498-104	
C17017	0.10uF, 0603, 16V, 5%	258498-104	
C17018	0.10uF, 0603, 16V, 5%	258498-104	
C17019	220uF, EL, SMD, 105, 50V, 20%	306169-221HJ	
C17020	0.10uF, 0603, 16V, 5%	258498-104	
C17021	1500uF, EL, SMD, 105, 6.3V, 20%	306169-152LJ	
C17022	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17023	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17024	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17025	470uF, EL, SMD, 105, 25V, 20%	306169-471EJ	
C17026	470uF, EL, SMD, 105, 25V, 20%	306169-471EJ	
C17027	470uF, EL, SMD, 105, 25V, 20%	306169-471EJ	
C17028	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17029	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17030	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17031	120PF, 0603, COG, 50V, 5%	188454-121	
C17032	120PF, 0603, COG, 50V, 5%	188454-121	
C17033	1000PF, 0603, COG, 50V, 5%	188454-102	
C17034	470PF, 0603, X7R, 50V	191470-471	
C17035	470PF, 0603, X7R, 50V	191470-471	
C17036	0.10uF, 0603, 16V, 5%	258498-104	
C17037	470PF, 0603, X7R, 50V	191470-471	

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Capacitors

Reference Designator	Description	Material Number	Note
C17038	0.10uF, 0603, 16V, 5%	258498-104	
C17039	0.10uF, 0603, 16V, 5%	258498-104	
C17040	0.1uF, X7R, 0603, 10%, 50V	304991-104	
C17041	0.1uF, X7R, 0603, 10%, 50V	304991-104	
C17051	0.1uF, X7R, 0603, 10%, 50V	304991-104	
C17054	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17055	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C17056	1.0uF, 1206, X7R, 50V, 10%	286500-105	

Diodes

Reference Designator	Description	Material Number	Note
D1000	DUAL, SOT-23, BAW56	180738	
D15000	SOT-23, BAV 99	147239	
D16000	SCHOTTKY, 60V, 3A	307429-60	
D16001	SWTCHING, SCHOTTKY, 1A/20V	195637-1	
D16002	SWTCHING, SCHOTTKY, 1A/20V	195637-1	
D16003	SOT-23, BAV 99	147239	
D17000	DUAL, SOT-23, BAW56	180738	
D17001	DUAL, SOT-23, BAW56	180738	
D4000	SOT-23, BAV 99	147239	
D4001	SOT-23, BAV 99	147239	
D5000	SOT-23, BAV 99	147239	
D5001	SOT-23, BAV 99	147239	
D5002	SOT-23, BAV 99	147239	
D5003	SOT-23, BAV 99	147239	
D5004	SOT-23, BAV 99	147239	
D5005	SOT-23, BAV 99	147239	
D5006	SOT-23, BAV 99	147239	
D6000	SOT-23, BAV 99	147239	
D6001	SOT-23, BAV 99	147239	
D6002	SOT-23, BAV 99	147239	
D7002	LED, SMD, YELLOW	256781-003	
D7006	ZEN, 5.6V, 225MW, 5%, SOT-23	135247-5232	
D7009	ZEN, 5.6V, 225MW, 5%, SOT-23	135247-5232	
D7012	ZEN, 5.6V, 225MW, 5%, SOT-23	135247-5232	
D7013	LED, SMD, YELLOW	256781-003	
D7014	LED, SMD, YELLOW	256781-003	
D7015	LED, SMD, YELLOW	256781-003	

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Capacitors

Reference Designator	Description	Material Number	Note
D7017	ZEN, 5.6V, 225MW, 5%, SOT-23	135247-5232	
D8000	SOT-23, BAV 99	147239	
D8001	SOT-23, BAV 99	147239	
D9001	ZEN, 5.6V, 225MW, 5%, SOT-23	135247-5232	
D9004	LED, SMD, YELLOW	256781-003	

Transistors

Reference Designator	Description	Material Number	Note
Q2000	BPLR, N, 40V, 200mA, SOT23	146819	
Q4000	TRANSISTOR, SOT-23	260354-001	
Q4001	TRANSISTOR, SOT-23	260354-001	
Q5000	NPN, SOT, 2.2K, 2SC3915	179639	AV35
Q5001	BPLR, N, 40V, 200mA, SOT23	146819	AV35
Q5003	N, MFET, 2.5V, SOT-23	252043	
Q5004	BPLR, N, 40V, 200mA, SOT23	146819	
Q5010	TRANS, MBT3904DW1T1	195857-3	
Q5011	BPLR, P, 40V, 200mA, SOT23	148596	
Q5012	BPLR, P, 40V, 200mA, SOT23	148596	
Q5013	BPLR, P, 40V, 200mA, SOT23	148596	AV35
Q5014	BPLR, P, 40V, 200mA, SOT23	148596	AV35
Q7000	BPLR, N, 50V, 100mA, SOT23	146817	
Q7001	BPLR, N, 50V, 100mA, SOT23	146817	
Q7002	BPLR, N, 50V, 100mA, SOT23	146817	
Q7003	BPLR, N, 40V, 200mA, SOT23	146819	
Q7004	BPLR, N, 40V, 200mA, SOT23	146819	
Q7005	BPLR, N, 40V, 200mA, SOT23	146819	
Q7006	BPLR, N, 40V, 200mA, SOT23	146819	
Q7007	BPLR, N, 50V, 100mA, SOT23	146817	
Q8000	BPLR, N, 40V, 200mA, SOT23	146819	
Q8001	BPLR, N, 40V, 200mA, SOT23	146819	
Q8002	N, MFET, 2.5V, SOT-23	252043	
Q8003	N, MFET, 2.5V, SOT-23	252043	
Q8006	N, MFET, 2.5V, SOT-23	252043	
Q8007	N, MFET, 2.5V, SOT-23	252043	
Q8008	BPLR, P, 40V, 200mA, SOT23	148596	
Q9000	BPLR, N, 50V, 100mA, SOT23	146817	
Q9001	P, 50V, 2SA1341	146818	
Q9002	P, 50V, 2SA1341	146818	
Q9004	N, MFET, 30V, 1.2A, SOT-23	273258-001	

AV20/35 Main PCB Part List

Transistors

Reference Designator	Description	Material Number	Note
Q11000	P, 50V, 2SA1341	146818	
Q15000	NPN, SOT, 2.2K, 2SC3915	179639	
Q16001	MFET, P, 40V, 3.0A, SOT-23	303215-001	
Q17000	N, MFET, 30V, 1.2A, SOT-23	273258-001	
Q17001	DUAL, MOSFET, N-CH, 20V, 10A	301812-001	
Q17002	DUAL, MOSFET, N-CH, 20V, 10A	301812-001	
Q17003	DUAL, MOSFET, N-CH, 20V, 10A	301812-001	

Integrated Circuits

Reference Designator	Description	Material Number	Note
U1000	ST7200C3, AWC, Bose Map, No Macrovision	320048-00A	
U1000-A	PAD, THERMAL	317045-0001	
U1003	Video/4xHDMI Receiver, ADV7604, 260BGA	319495-001	
U1004	Schmitt Inverter, 1x, SOT323	304030-001	
U1005	4xI/O Protection Diode Array, SOT23-6	326396-001	
U1006	4xI/O Protection Diode Array, SOT23-6	326396-001	
U1007	4xI/O Protection Diode Array, SOT23-6	326396-001	AV35
U1011	V REG, POS, ADJ, LDO, SOT223	276753-002	
U1012	VREG, 1A LDO w/EN, TPS737xx	321443-A18	
U2000	VIDEO SWITCH, SSOP32	303254-001	
U2001	TC90103AFG, VID DEC, 3D COMB	303270-001	
U2002	4xI/O Protection Diode Array, SOT23-6	326396-001	AV35
U2003	4xI/O Protection Diode Array, SOT23-6	326396-001	
U3000	OP AMP, DUAL, RAIL TO RAIL	277563-001	
U3001	OP AMP, DUAL, RAIL TO RAIL	277563-001	AV35
U4000	OP AMP, DUAL, HI CURRENT	256741-001	
U4001	OP AMP, DUAL, HI CURRENT	256741-001	
U4002	OP AMP, DUAL, RAIL TO RAIL	277563-001	AV35
U4003	OP AMP, DUAL, RAIL TO RAIL	277563-001	AV35
U5000	AUDIO MATRIX, SO28	177984-2	
U5001	AUDIO MATRIX, SO28	177984-2	AV35
U5002	TONE CONTROL, I2C, 4 INPUTS	299662-001	
U5003	TONE CONTROL, I2C, 4 INPUTS	299662-001	AV35
U5004	OP AMP, DUAL, RAIL TO RAIL	277563-001	
U5005	A/D CONV, 96KHz, 24BIT, AK5381	299343-001	

AV20/35 Main PCB Part List

Integrated Circuits

Reference Designator	DESCRIPTION	Material Number	Note
U5006	OP AMP, DUAL, RAIL TO RAIL	277563-001	
U6000	S/PDIF AUDIO RCVR, 192KHZ	299659-001	
U6001	DUAL POWER SWITCH, 2052, SOIC	301545-001	AV35
U6002	OP AMP, DUAL, HI CURRENT	256741-001	AV35
U7001	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7002	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7003	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7004	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7005	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7006	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7007	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U7008	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U8000	40BIT I2C I/O EXPANDER, TSSOP56	301709-002	
U8001	DUAL BIDIR. BUS BUFFER, P82B96, TSSOP	324535-001	
U9000	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U9001	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U9002	VREG, LDO, 100MA, SOT-23,	283384-5001	
U9003	DUAL POWER SWITCH, 2052, SOIC	301545-001	
U9004	DIODE CLAMP PACK, LOW 4I/O	302460-001	
U9005	DIODE CLAMP PACK, LOW 4I/O	302460-001	AV35
U11001	FLASH, 64MBIT, , 3V, TSOP-48	Not Available	
U11003	NAND FLASH, 4-GBIT, TSOP48	Not Available	
U12000	DDR2 SDRAM, 1GBIT, 64MX16, -25E	301588-003	
U12001	DDR2 SDRAM, 1GBIT, 64MX16, -25E	301588-003	
U13000	DDR2 SDRAM, 1GBIT, 64MX16, -25E	301588-003	
U13001	DDR2 SDRAM, 1GBIT, 64MX16, -25E	301588-003	
U15000	SCHMITT INVERTER, 1X, SOT323	304030-001	
U15001	RESET, 2.93VT, SOT23, DBV	289604-033	
U15002	MULTI CLOCK SYNTH, TSSOP20	303982-001	
U15003	SCHMITT INVERTER, 1X, SOT323	304030-001	
U15004	SCHMITT INVERTER, 1X, SOT323	304030-001	
U16000	PWM, V, CNTRLLR, TPS40200	303218-001	
U16001	V REG, POS, ADJ, LDO, DPAK	276753-001	
U16002	VOLT REG, 5V, DPAK, L78M05	197227-001	
U16004	V REG, POS, ADJ, LDO, SOT223	276753-002	
U16005	VOLT REG, KF00 SERIES	195651-025	
U16006	VOLT REG, KF00 SERIES	195651-025	
U17000	VREG., TRIPLE, SYNC BUCK W/LDO	301804-001	

AV20/35 Main PCB Part List

Inductors

Reference Designator	Description	Material Number	Note
L1000	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L1001	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L1002	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L1003	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L1004	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L1005	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2000	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2001	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2002	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2003	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2004	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L2005	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L6000	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	AV35
L12000	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L13000	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14000	Ferrite Bead, BLM41P, 1806, 60 ohm	307665-600	
L14001	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14002	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14003	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14004	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14005	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14006	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14007	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14008	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14009	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L14010	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15000	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	

AV20/35 Main PCB Part List

Inductors

Reference Designator	Description	Material Number	Note
L15001	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15002	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15003	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15004	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15005	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15006	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15007	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15008	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15009	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L15010	330 OHM, BEAD, FERRITE, 0805, 1.5A	302257-331	
L16000	INDUCTOR, PWR, 47uH, 2.10A	309804-470M	
L17001	Inductor, Fixed, 15uH, 6.4A,	300618-150M	
L17002	Inductor, Fixed, 15uH, 6.4A,	300618-150M	
L17003	Inductor, Fixed, 15uH, 6.4A,	300618-150M	
L17004	Ferrite Bead, BLM41P, 1806, 60 ohm	307665-600	

Connectors

Reference Designator	Description	Material Number	Note
J6000/1001 /1002	OPTICAL CONNECTOR DOOR	360218-100S	
J6000/1001 /1002	OPTICAL CONNECTOR SPRING	360219-100S	
J1001	CONNECTOR, AV, LARGE	313950-1010	
J1002	CONNECTOR, AV, LARGE	313950-1010	
J4000	CONN., PIN JACK, MINIDIN, IPOD	313955-1010	AV35
J400	CONN, PIN JACK, MINIDIN, W/O IPOD	313955-2010	AV20
J5000	CONN, SMT, .5mm, 24-POS, FFC	269863-024	
J5001	CONN, SMT, .5mm, 24-POS, FFC	269863-024	
J6000	CONN., OPTICAL RCVR, SINGLE	313902-1010	
J7000	CONN, HDMI W SAIL, SWITCH, SMT	314010-2010	
J7001	CONN, HDMI W SAIL, SWITCH, SMT	314010-2010	
J7002	CONN, HDMI W SAIL, SWITCH, SMT	314010-2010	
J7003	CONN, HDMI, SWITCH, SMT	314010-1010	
J8000	CONN, FFC, .5MM, TOP ENTRY, 50PIN	310573-150	
J9000	CONN, HDMI W SAIL, SWITCH, SMT	314010-2010	
J9001	CONN, USB, TYPE A, SMT	306363-001	
J9002	CONN, USB, TYPE A, SMT	306363-001	AV35

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Connectors

Reference Designator	Description	Material Number	Note
JP2000	JUMPER, CHIP, 0603	196042	
JP5000	JUMPER, CHIP, 0603	196042	AV20
JP5001	JUMPER, CHIP, 0603	196042	AV20
JP8001	JUMPER, CHIP, 0603	196042	AV20
JP8005	JUMPER, CHIP, 0603	196042	
JP9001	JUMPER, CHIP, 0603	196042	
JP9002	JUMPER, CHIP, 0805	133627	
JP9003	JUMPER, CHIP, 0805	133627	AV35
JP14001	JUMPER, CHIP, 0603	196042	
J17000	CONN., 2-P, HDR, TOP-ENTRY, KEYED	320507-102	

Miscellaneous

Reference Designator	Description	Material Number	Note
SHLD1	SHIELD, FENCE, 100 X 83MM	317067-0010	
SHLD1-BOT	SHIELD, COVER, 100 X 83MM	317068-0010	
SHLD1-TOP	SHIELD, COVER, 100 X 83MM	317068-0010	
SHLD2	SHIELD, FENCE, 47 X 18MM	317070-0010	
SHLD2-TOP	SHIELD, COVER, 47 X 18MM	317069-0010	
SHLD3	SHIELD, FENCE, 43MM WALL	321230-0010	
	SPRING CLIP, HDMI	326846-0010	
Y15000	CRYSTAL, 30MHz, 3.2mmx2.5mm, SMD	291429-006	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R100	10K, 0603, .1W, 5%	199403-103	
R101	2.0K, 0603, .1W, 5%	199403-202	
R102	100 OHM, 0603, .1W, 5%	199403-101	
R103	2.0K, 0603, .1W, 5%	199403-202	
R104	470 OHM, 0603, .1W, 5%	199403-471	
R105	100 OHM, 0603, .1W, 5%	199403-101	
R106	100 OHM, 0603, .1W, 5%	199403-101	
R107	100 OHM, 0603, .1W, 5%	199403-101	
R108	100 OHM, 0603, .1W, 5%	199403-101	
R109	100 OHM, 0603, .1W, 5%	199403-101	
R110	10K, 0603, .1W, 5%	199403-103	
R111	100 OHM, 0603, .1W, 5%	199403-101	
R112	100 OHM, 0603, .1W, 5%	199403-101	
R113	2.0K, 0603, .1W, 5%	199403-202	
R114	2.0K, 0603, .1W, 5%	199403-202	
R115	100K, 0603, .1W, 1%	191465-1003	
R116	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R117	10K, 0603, .1W, 5%	199403-103	
R128	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R129	100K, ARRAY, SMT, 4POS, 5%	186433-1044	
R130	1M, 0603, .1W, 5%	199403-105	
R131	1K, 0603, .1W, 5%	199403-102	
R200	2.2K, 0603, .1W, 5%	199403-222	
R202	10K, 0603, .1W, 5%	199403-103	
R203	10K, 0603, .1W, 5%	199403-103	
R205	470 OHM, 0603, .1W, 5%	199403-471	
R206	1K, 0603, .1W, 5%	199403-102	
R207	2.2K, 0603, .1W, 5%	199403-222	
R208	113 OHM, 0603, .1W, 1%	191465-1130	
R209	4.7K, 0603, .1W, 5%	199403-472	
R210	4.7K, 0603, .1W, 5%	199403-472	
R211	10K, 0603, .1W, 5%	199403-103	
R212	10K, 0603, .1W, 5%	199403-103	
R213	4.7K, 0603, .1W, 5%	199403-472	
R214	86.6 OHM, 0603, 100MW, 1%	191465-86R6	
R215	30K, 0603, .1W, 5%	199403-303	
R216	750 OHM, 0603, .1W, 5%	199403-751	
R217	3.9K, 0603, .1W, 5%	199403-392	
R218	10 OHM, 0603, .1W, 5%	199403-100	
R219	2.2K, 0603, .1W, 5%	199403-222	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R220	4.7K, 0603, .1W, 5%	199403-472	
R221	750 OHM, 0603, .1W, 5%	199403-751	
R222	3.9K, 0603, .1W, 5%	199403-392	
R223	330 OHM, 0805, 1/10W, 5%	133626-3315	
R224	2.2K, 0603, .1W, 5%	199403-222	
R225	10 OHM, 0603, .1W, 5%	199403-100	
R226	2.2K, 0603, .1W, 5%	199403-222	
R227	4.7K, 0603, .1W, 5%	199403-472	
R228	4.7K, 0603, .1W, 5%	199403-472	
R229	4.7K, 0603, .1W, 5%	199403-472	
R230	47K, 0603, .1W, 5%	199403-473	
R231	332 OHM, 0603, .1W, 1%	191465-3320	
R232	2.2K, 0603, .1W, 5%	199403-222	
R233	22K, 0603, .1W, 5%	199403-223	
R234	10K, 0603, .1W, 5%	199403-103	
R235	10K, 0603, .1W, 5%	199403-103	
R236	2.2K, 0603, .1W, 5%	199403-222	
R237	10K, 0603, .1W, 5%	199403-103	
R238	15 0HM, 0805, 1/10W, 5%	133626-1505	
R300	150 OHM, 0603, .1W, 5%	199403-151	
R301	2.32K, 0603, .1W, 1%	191465-2321	
R302	1K, 0603, .1W, 5%	199403-102	
R303	120 OHM, 0603, .1W, 5%	199403-121	
R304	51 OHM, 0603, 100MW, 5%	199403-510	
R305	499 OHM, 0603, .1W, 1%	191465-4990	
R306	2.32K, 0603, .1W, 1%	191465-2321	
R307	330 OHM, 0603, .1W, 1%	191465-3300	
R308	4.75K, 0603, .1W, 1%	191465-4751	
R309	49.9K, 0603, .1W, 1%	191465-4992	
R310	3.48K, 0603, .1W, 1%	191465-3481	
R311	49.9K, 0603, .1W, 1%	191465-4992	
R312	3.48K, 0603, .1W, 1%	191465-3481	
R313	100 OHM, 0603, .1W, 5%	199403-101	
R314	51 OHM, 0603, 100MW, 5%	199403-510	
R315	17.8K OHM, 0603, 0.1W, 1%	191465-1782	
R316	3.01K, 0603, .1W, 1%	191465-3011	
R317	5.11K, 0603, .1W, 1%	191465-5111	
R318	5.11K, 0603, .1W, 1%	191465-5111	
R319	13K, 0603, .1W, 1%	191465-1302	
R320	17.8K OHM, 0603, 0.1W, 1%	191465-1782	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R321	3.32K, 0603, .1W, 1%	191465-3321	
R322	3.32K, 0603, .1W, 1%	191465-3321	
R323	1.82K, 0603, 1/10W, 1%	191465-1821	
R324	1.82K, 0603, 1/10W, 1%	191465-1821	
R325	4.75K, 0603, .1W, 1%	191465-4751	
R326	3.01K, 0603, .1W, 1%	191465-3011	
R327	1.18K OHM, 0603, 100MW, 1%	191465-1181	
R329	22 OHM, 0603, .1W, 5%	199403-220	
R330	5.11K, 0603, .1W, 1%	191465-5111	
R331	47K, 0603, .1W, 5%	199403-473	
R332	100K, 0603, .1W, 1%	191465-1003	
R334	5.11K, 0603, .1W, 1%	191465-5111	
R400	20 OHM, 0603, .1W, 5%	199403-200	
R401	3.32K, 0603, .1W, 1%	191465-3321	
R402	20 OHM, 0603, .1W, 5%	199403-200	
R403	1K, 0603, .1W, 5%	199403-102	
R404	100K, 0603, .1W, 1%	191465-1003	
R405	1K, 0603, .1W, 5%	199403-102	
R406	4.7K, ARRAY, SMT, 4POS, 5%	186433-4724	
R407	2.2K, 0603, .1W, 5%	199403-222	
R408	51 OHM, 0603, 100MW, 5%	199403-510	
R409	3.32K, 0603, .1W, 1%	191465-3321	
R410	1K, 0603, .1W, 1%	191465-1001	
R411	2.0K, 0603, .1W, 5%	199403-202	
R412	100 OHM, 0603, .1W, 5%	199403-101	
R413	1K, 0603, .1W, 5%	199403-102	
R414	6.81K, 0603, 0.1W, 1%	191465-6811	
R415	3.01K, 0603, .1W, 1%	191465-3011	
R416	1K, 0603, .1W, 1%	191465-1001	
R417	3.32K, 0603, .1W, 1%	191465-3321	
R500	4.7K, 0603, .1W, 5%	199403-472	
R501	9.1K, 0603, .1W, 5%	199403-912	
R502	47 OHM, 0603, SMD, 100mW	199403-470	
R503	402 OHM, 0603, .1W, 1%	191465-4020	EUR
R503	470 OHM, 0603, .1W, 5%	199403-471	US
R504	1K, 0603, .1W, 5%	199403-102	
R505	47K, 0603, .1W, 5%	199403-473	
R506	6.81K, 0603, 0.1W, 1%	191465-6811	
R507	430 OHM, 0603, SMD, 100mW	199403-431	
R508	2.0 OHM, 0603, SMD, 100mW	199403-2R0	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R510	22 OHM, 0603, .1W, 5%	199403-220	
R511	20K, 0603, .1W, 1%	191465-2002	
R512	27.4K, 0603, .1W, 1%	191465-2742	
R513	100K, 0603, .1W, 1%	191465-1003	
R514	1M, 0603, .1W, 5%	199403-105	
R515	27.4K, 0603, .1W, 1%	191465-2742	
R516	10K, 0603, .1W, 1%	191465-1002	
R517	57.6K, 0603, .1W, 1%	191465-5762	
R518	100K, 0603, .1W, 1%	191465-1003	
R519	100K, 0603, .1W, 1%	191465-1003	
R520	10K, 0603, .1W, 5%	199403-103	
R521	2.0 OHM, 0603, SMD, 100mW	199403-2R0	
R522	120 OHM, 0603, .1W, 5%	199403-121	
R600	499 OHM, 0603, .1W, 1%	191465-4990	
R601	2.21K, 0603, .1W, 1%	191465-2211	
R602	2.0K, 0603, .1W, 5%	199403-202	
R603	220 OHM, ARRAY, SMT, 4POS, 5%	186433-2214	
R604	430 OHM, 0603, SMD, 100MW	199403-431	
R606	1K, 0603, .1W, 1%	191465-1001	
R608	1K, 0603, .1W, 1%	191465-1001	
R610	33.0K, 0805, 1/10W, 5%	133626-3335	
R611	33.0K, 0805, 1/10W, 5%	133626-3335	
R612	33.0K, 0805, 1/10W, 5%	133626-3335	
R613	33.0K, 0805, 1/10W, 5%	133626-3335	
R614	33.0K, 0805, 1/10W, 5%	133626-3335	
R615	33.0K, 0805, 1/10W, 5%	133626-3335	
R616	75 OHM, 0805, 1/10W, 5%	133626-7505	
R617	1.18K OHM, 0603, 100MW, 1%	191465-1181	
R618	1.18K OHM, 0603, 100MW, 1%	191465-1181	
R619	75 OHM, 0805, 1/10W, 5%	133626-7505	
R620	100K, 0603, .1W, 1%	191465-1003	
R621	1M, 0603, .1W, 5%	199403-105	
R622	1M, 0603, .1W, 5%	199403-105	
R623	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R624	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R625	27.4K, 0603, .1W, 1%	191465-2742	
R629	100K, 0603, .1W, 1%	191465-1003	
R631	100K, 0603, .1W, 1%	191465-1003	
R632	1M, 0603, .1W, 5%	199403-105	
R633	10K, 0603, .1W, 5%	199403-103	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R634	100 OHM, 0603, .1W, 5%	199403-101	
R635	1.00K, 0805, .125W, 1%	133625-1001	
R636	330 OHM, 0805, 1/10W, 5%	133626-3315	
R637	100 OHM, 0603, .1W, 5%	199403-101	
R638	30.1K, 0603, .1W, 1%	191465-3012	
R701	100K, 0603, .1W, 1%	191465-1003	
R702	5.11K, 0603, .1W, 1%	191465-5111	
R703	100 OHM, 0603, .1W, 5%	199403-101	
R704	10 OHM, 0603, .1W, 5%	199403-100	
R706	2.0K, 0603, .1W, 5%	199403-202	
R708	0.10 OHM, 0805, 1/8W, 5%	304926-R10	
R709	10 OHM, 0805, 1/10W, 5%	133626-1005	
R710	11.3K, 0603, .1W, 1%	191465-1132	
R711	3.01K, 0603, .1W, 1%	191465-3011	
R713	39K, 0603, SMD, 100MW, +/-5%	199403-393	
R714	16.2K, 0603, .1W, 1%	191465-1622	
R716	1K, 0603, .1W, 1%	191465-1001	
R717	6.65K, 0603, .1W, 1%	191465-6651	
R718	47K, 0603, .1W, 5%	199403-473	
R719	1K, 0603, .1W, 5%	199403-102	
R720	10K, 0603, .1W, 5%	199403-103	
R721	2.2K, 0603, .1W, 5%	199403-222	
R722	10K, 0603, .1W, 5%	199403-103	
R723	4.7K, 0603, .1W, 5%	199403-472	
R724	47K, 0603, .1W, 5%	199403-473	
R725	10K, 0603, .1W, 5%	199403-103	
R800	100 OHM, 0603, .1W, 5%	199403-101	
R801	100 OHM, 0603, .1W, 5%	199403-101	
R803	56.2K, 0402, 63MW, 1%	268361-5622	
R813	4.7K, 0603, .1W, 5%	199403-472	
R818	100 OHM, 0603, .1W, 5%	199403-101	
R819	10K, 0603, .1W, 5%	199403-103	
R900	1.00K, 0805, .125W, 1%	133625-1001	
R901	1.00K, 0805, .125W, 1%	133625-1001	
R902	1.00K, 0805, .125W, 1%	133625-1001	
R903	1.00K, 0805, .125W, 1%	133625-1001	
R904	1.00K, 0805, .125W, 1%	133625-1001	
R905	1.00K, 0805, .125W, 1%	133625-1001	
R906	1.00K, 0805, .125W, 1%	133625-1001	
R907	1.00K, 0805, .125W, 1%	133625-1001	

AV35 Tuner PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R908	100K, 0603, .1W, 1%	191465-1003	
R909	100K, 0603, .1W, 1%	191465-1003	
R910	100K, 0603, .1W, 1%	191465-1003	
R911	100K, 0603, .1W, 1%	191465-1003	
R912	100K, 0603, .1W, 1%	191465-1003	
R913	100K, 0603, .1W, 1%	191465-1003	
R914	100K, 0603, .1W, 1%	191465-1003	
R915	100K, 0603, .1W, 1%	191465-1003	
R1200	1.00K, 0805, .125W, 1%	133625-1001	
R1201	10K, 0603, .1W, 5%	199403-103	
R1202	100K, 0603, .1W, 1%	191465-1003	
R1203	1.00K, 0805, .125W, 1%	133625-1001	
R1204	220 OHM, 0603, .1W, 5%	199403-221	
R1205	10K, 0603, .1W, 5%	199403-103	
R1206	220 OHM, 0603, .1W, 5%	199403-221	
R1207	100K, 0603, .1W, 1%	191465-1003	
R1208	75 OHM, 0603, .1W, 5%	199403-750	

Capacitors

Reference Designator	Description	Material Number	Note
C100	0.10uF, 0603, 16V, 5%	258498-104	
C102	0.10uF, 0603, 16V, 5%	258498-104	
C103	0.10uF, 0603, 16V, 5%	258498-104	
C104	0.10uF, 0603, 16V, 5%	258498-104	
C105	0.10uF, 0603, 16V, 5%	258498-104	
C106	0.10uF, 0603, 16V, 5%	258498-104	
C107	0.10uF, 0603, 16V, 5%	258498-104	
C108	0.10uF, 0603, 16V, 5%	258498-104	
C109	27pF, 0603, COG, 50V, 5%	188454-270	
C110	22pF, 0603, COG, 50V, 5%	188454-220	
C111	0.10uF, 0603, 16V, 5%	258498-104	
C112	0.10uF, 0603, 16V, 5%	258498-104	
C113	1000pF, 0603, X7R, 50V	191470-102	
C114	180pF, 0603, COG, 50V	188454-181	US
C115	180pF, 0603, COG, 50V	188454-181	US
C116	180pF, 0603, COG, 50V	188454-181	US
C117	180pF, 0603, COG, 50V	188454-181	US
C118	180pF, 0603, COG, 50V	188454-181	US
C119	180pF, 0603, COG, 50V	188454-181	US

AV35 Tuner PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C200	.01uF, 0603, X7R, 50V	191470-103	
C201	0.10uF, 0603, 16V, 5%	258498-104	
C202	470pF, 0603, X7R, 50V	191470-471	
C204	22pF, 0603, COG, 50V, 5%	188454-220	
C206	100pF, 0603, X7R, 50V	191470-101	
C207	470pF, 0603, X7R, 50V	191470-471	
C208	470pF, 0603, X7R, 50V	191470-471	
C209	0.10uF, 0603, 16V, 5%	258498-104	
C210	0.10uF, 0603, 16V, 5%	258498-104	
C211	.01uF, 0603, X7R, 50V	191470-103	
C212	.01uF, 0603, X7R, 50V	191470-103	
C213	100pF, 0603, X7R, 50V	191470-101	
C300	.047uF, 0603, X7R, 5%, 25V	196999-473	
C301	.047uF, 0603, X7R, 5%, 25V	196999-473	
C302	.047uF, 0603, X7R, 5%, 25V	196999-473	
C303	.047uF, 0603, X7R, 5%, 25V	196999-473	
C304	47uF, EL, 85, 16V, 20%	177902-470C	
C305	47uF, EL, 85, 16V, 20%	177902-470C	
C308	.047uF, 0603, X7R, 5%, 25V	196999-473	
C309	2.2uF, EL, 85, 50V, 20%	177902-2R2H	
C310	.47uF, 1206, X7R, 16V	181998-474	
C311	1uF, EL, 85, 50V, 20%	177902-010H	
C312	180pF, 0603, COG, 50V	188454-181	US
C313	1uF, EL, 85, 50V, 20%	177902-010H	
C314	EL, 85, 50V, 20%, .47uF	177902-R47H	
C315	1uF, EL, 85, 50V, 20%	177902-010H	
C316	47uF, EL, 85, 16V, 20%	177902-470C	
C317	.047uF, 0603, X7R, 5%, 25V	196999-473	
C318	.047uF, 0603, X7R, 5%, 25V	196999-473	
C319	.01uF, 0603, X7R, 50V	191470-103	
C320	10uF, EL, 85, 16V, 20%	177902-100C	
C321	10uF, EL, 85, 16V, 20%	177902-100C	
C322	3.3uF, EL, 85, 50V, 20%	177902-3R3H	
C323	22uF, EL, 85, 20%, 16V	177902-220C	
C324	10uF, EL, 85, 16V, 20%	177902-100C	
C325	.047uF, 0603, X7R, 5%, 25V	196999-473	US
C325	.033uF, 0603, X7R, 25V	196999-333	EU
C326	.047uF, 0603, X7R, 5%, 25V	196999-473	US
C326	.033uF, 0603, X7R, 25V	196999-333	EU
C327	9.1pF, 0603, COG, 50V	188454-9R1	

AV35 Tuner PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C328	560pF, 0603, X7R, 50V	191470-561	
C329	10pF, 0603, COG, 50V, 5%	188454-100	
C330	6.8nF, 0603, C0G, SMD, 25V, 5%	268368-682	
C331	5.6nF, 0603, C0G, 50V, 5%	188454-562	
C332	3.3nF, 0603, C0G, 50V, 5%	188454-332	
C333	3.3nF, 0603, C0G, 50V, 5%	188454-332	
C334	6.8nF, 0603, C0G, SMD, 25V, 5%	268368-682	
C335	5.6nF, 0603, C0G, 50V, 5%	188454-562	
C400	.047uF, 0603, X7R, 5%, 25V	196999-473	US
C401	330pF, 0603, COG, 50V, 5%	188454-331	
C402	10uF, EL, 85, 16V, 20%	177902-100C	
C403	560pF, 0603, COG, 50V, 5%	188454-561	
C404	39pF, 0603, COG, 50V, 5%	188454-390	
C405	39pF, 0603, COG, 50V, 5%	188454-390	
C406	0.10uF, 0603, 16V, 5%	258498-104	
C407	1000pF, 0603, X7R, 50V	191470-102	US
C408	.047uF, 0603, X7R, 5%, 25V	196999-473	US
C409	.047uF, 0603, X7R, 5%, 25V	196999-473	US
C410	.01uF, 0603, X7R, 50V	191470-103	
C411	1000pF, 0603, X7R, 50V	191470-102	
C412	100uF, EL, 85, 16V, 20%	177902-101C	
C413	2.2uF, EL, BP, 85, 50V, 20%	259549-2R2H	
C415	.047uF, 0603, X7R, 5%, 25V	196999-473	
C416	.047uF, 0603, X7R, 5%, 25V	196999-473	
C500	.01uF, 0603, X7R, 50V	191470-103	
C501	30pF, 0603, COG, 50V, 5%	188454-300	
C502	220pF, 0603, COG, 50V, 5%	188454-221	
C502	1000pF, 0603, X7R, 50V	191470-102	
C503	1000pF, 0603, X7R, 50V	191470-102	
C504	30pF, 0603, COG, 50V, 5%	188454-300	
C505	1000pF, 0603, X7R, 50V	191470-102	
C506	.01uF, 0603, X7R, 50V	191470-103	
C507	4700pF, 0603, X7R, 50V	191470-472	
C508	4700pF, 0603, X7R, 50V	191470-472	
C509	390pF, 0603, COG, 50V	188454-391	US
C509	150pF, 0603, COG, 50V, 5%	188454-151	EU
C510	20pF, 0603, COG, 50V	188454-200	US
C510	18pF 0603, COG, 50V, 5%	188454-180	EU
C511	.01uF, 0603, X7R, 50V	191470-103	
C512	.047uF, 0603, X7R, 5%, 25V	196999-473	EU

AV35 Tuner PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C513	1000pF, 0603, X7R, 50V	191470-102	
C514	0.39uF, 1206, X7R, 16V, 5%	181998-3945	
C515	.047uF, 0603, X7R, 5%, 25V	196999-473	
C516	.047uF, 0603, X7R, 5%, 25V	196999-473	
C517	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C518	10pF, 0603, COG, 50V, 5%	188454-100	EU
C518	9.1pF, 0603, COG, 50V	188454-9R1	US
C519	180pF, 0603, COG, 50V	188454-181	US
C519	100pF, 0603, COG, 50V, 5%	188454-101	EU
C520	68pF, 0603, COG, 50V, 5%	188454-680	EU
C520	120pF, 0603, COG, 50V, 5%	188454-121	US
C600	1000pF, 0603, X7R, 50V	191470-102	
C601	1000pF, 0603, X7R, 50V	191470-102	
C602	1000pF, 0603, X7R, 50V	191470-102	
C603	1000pF, 0603, X7R, 50V	191470-102	
C604	1000pF, 0603, X7R, 50V	191470-102	
C605	330pF, 0603, COG, 50V, 5%	188454-331	
C606	1000pF, 0603, X7R, 50V	191470-102	
C607	1000pF, 0603, X7R, 50V	191470-102	
C608	330pF, 0603, COG, 50V, 5%	188454-331	
C609	1000pF, 0603, X7R, 50V	191470-102	
C610	1000pF, 0603, X7R, 50V	191470-102	
C611	330pF, 0603, COG, 50V, 5%	188454-331	
C612	330pF, 0603, COG, 50V, 5%	188454-331	
C616	330pF, 0603, COG, 50V, 5%	188454-331	
C617	10uF, EL, 85, 16V, 20%	177902-100C	
C618	180pF, 0603, COG, 50V	188454-181	US
C619	180pF, 0603, COG, 50V	188454-181	US
C701	1000pF, 0603, X7R, 50V	191470-102	
C702	470pF, 0603, COG, 50V, 5%	188454-471	
C703	0.22uF, 0805, X7R, 50V, 10%	286499-224	
C704	.047uF, 0603, X7R, 50V	191470-473	
C705	1000pF, 0603, X7R, 50V	191470-102	
C706	0.001uF, 0805, X7R, 50V, 10%	286499-102	
C707	330pF, 0603, X7R, 50V	191470-331	
C708	.047uF, 0603, X7R, 50V	191470-473	
C709	47uF, EL, SMD, 105, 25V, 20%	306169-470EF	
C710	0.1uF, 0805, X7R, 50V, 10%	286499-104	
C711	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C713	10uF, EL, 85, 16V, 20%	177902-100C	

AV35 Tuner PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C714	0.10uF, 0603, 16V, 5%	258498-104	
C715	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C716	1uF, 0805, X7R, 10%, 25V	181264-105	
C717	0.10uF, 0603, 16V, 5%	258498-104	
C718	0.10uF, 0603, 16V, 5%	258498-104	
C719	10uF, EL, 85, 16V, 20%	177902-100C	
C721	0.10uF, 0603, 16V, 5%	258498-104	
C723	.047uF, 0603, X7R, 5%, 25V	196999-473	EU
C724	1.0uF, 1206, X7R, 50V, 10%	286500-105	
C800	220pF, COG, 0402, 5%, 50V	268364-221	
C801	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C802	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C803	220pF, COG, 0402, 5%, 50V	268364-221	
C804	220pF, COG, 0402, 5%, 50V	268364-221	
C806	27pF, COG, 0402, 50V	268364-270	
C807	0.10uF, 0603, 16V, 5%	258498-104	
C809	100pF, COG, 0402, 5%, 50V	268364-101	
C810	100pF, COG, 0402, 5%, 50V	268364-101	
C811	27pF, COG, 0402, 50V	268364-270	
C812	1.0pF, COG, 0402, , +/-0.1pF, 50V	317398-010BH	
C813	1.0pF, COG, 0402, , +/-0.1pF, 50V	317398-010BH	
C814	1.0pF, COG, 0402, , +/-0.1pF, 50V	317398-010BH	
C818	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C820	0.1uF, X7R, 0402, 16V, 10%	293702-104	
C822	47uF, EL, 85, 6.3V, 20%	177902-470J	
C823	1.0pF, COG, 0402, , +/-0.1pF, 50V	317398-010BH	
C900	180pF, 0603, X7R, 50V	191470-181	
C901	180pF, 0603, X7R, 50V	191470-181	
C902	180pF, 0603, X7R, 50V	191470-181	
C903	180pF, 0603, X7R, 50V	191470-181	
C904	180pF, 0603, X7R, 50V	191470-181	
C905	180pF, 0603, X7R, 50V	191470-181	
C906	180pF, 0603, X7R, 50V	191470-181	
C907	180pF, 0603, X7R, 50V	191470-181	
C908	10uF, EL, 85, 16V, 20%	177902-100C	
C909	10uF, EL, 85, 16V, 20%	177902-100C	
C910	10uF, EL, 85, 16V, 20%	177902-100C	
C911	10uF, EL, 85, 16V, 20%	177902-100C	
C912	10uF, EL, 85, 16V, 20%	177902-100C	
C913	10uF, EL, 85, 16V, 20%	177902-100C	

AV35 Tuner PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C914	10uF, EL, 85, 16V, 20%	177902-100C	
C915	10uF, EL, 85, 16V, 20%	177902-100C	
C1201	100pF, 0603, COG, 50V, 5%	188454-101	
C1202	100pF, 0603, X7R, 50V	191470-101	
C1203	10uF, EL, 85, 16V, 20%	177902-100C	
C1204	100pF, 0603, X7R, 50V	191470-101	
C1205	100pF, 0603, COG, 50V, 5%	188454-101	
C1207	10uF, EL, 85, 16V, 20%	177902-100C	
C1208	1000uF, EL, SMT, 85d, 10V, 20%	307104-102A	
C1209	1000uF, EL, SMT, 85d, 10V, 20%	307104-102A	
C1210	1000pF, 0603, X7R, 50V	191470-102	

Diodes

Reference Designator	Description	Material Number	Note
D100	SOT-23, BAV99	147239	
D102	SOT	147239	
D103	DUAL, SOT-23, BAW56	180738	
D200	SOT	147239	
D201	SOT	147239	
D202	SOT	147239	
D203	SOT	147239	
D204	DUAL, SOT-23, BAW56	180738	
D205	SOT	147239	
D300	SOT	147239	
D400	SOT	147239	
D500	SOT-23, BAV99	147239	
D501	SOT	147239	
D600	SOT	147239	
D601	SOT	147239	
D602	DUAL, SOT-23, BAW56	180738	
D603	SOT-23, BAV99	147239	
D604	SOT	147239	
D701	SOT	147239	
D702	SCHOTTKY, 60V, 3A	307429-60	
D704	SOT	147239	
D804	IR EMITTING	256733-002	
D805	IR EMITTING	256733-002	
D806	IR EMITTING	256733-002	
D807	IR EMITTING	256733-002	

AV35 Tuner PCB Part List

Diodes

Reference Designator	Description	Material Number	Note
DS800	DUAL, LED, RED, GRN, CM_ANOD	316292-001	
DS1100	LED, SMD, VERT, BICOLOR, YEL, RED	307689-003	
ZR1200	TVS, DUAL, SOT-23, 40W, 27V	289251-27V	

Diodes

Reference Designator	Description	Material Number	Note
Q1	BPLR, N, 50V, 100mA, SOT23	146817	
Q2	BPLR, N, 50V, 100mA, SOT23	146817	
Q100	BPLR, N, 40V, 200mA, SOT23	146819	
Q200	BPLR, N, 40V, 200mA, SOT23	146819	
Q202	BPLR, P, 40V, 200mA, SOT23	148596	
Q203	BPLR, P, 40V, 200mA, SOT23	148596	
Q204	BPLR, P, 40V, 200mA, SOT23	148596	
Q205	BPLR, N, 40V, 200mA, SOT23	146819	
Q206	BPLR, N, 50V, 100mA, SOT23	146817	
Q207	SOT-23	260354-001	
Q208	BPLR, N, 50V, 100mA, SOT23	146817	
Q209	BPLR, N, 40V, 200mA, SOT23	146819	
Q210	SOT-23	260354-001	
Q211	BPLR, P, 40V, 200mA, SOT23	148596	
Q212	BPLR, N, 4.7K, SOT23	192603	
Q213	BPLR, N, 40V, 200mA, SOT23	146819	
Q214	BPLR, N, 40V, 200mA, SOT23	146819	
Q215	BPLR, P, 40V, 200mA, SOT23	148596	
Q216	BPLR, P, 40V, 200mA, SOT23	148596	
Q300	P, 50V, 2SA1341	146818	
Q301	JFET, N-CH, SOT23, MMBT5484	304339-001	
Q302	BPLR, N, 25V, 30MA, SOT-23	187601-001	
Q400	BPLR, N, 40V, 200mA, SOT23	146819	
Q401	BPLR, N, 40V, 200mA, SOT23	146819	
Q500	BPLR, N, 50V, 100mA, SOT23	146817	
Q501	P, 50V, 2SA1341	146818	
Q502	BPLR, N, 30V, 30mA, SOT-23	148781-4	
Q503	BPLR, N, 50V, 100mA, SOT23	146817	
Q504	BPLR, N, 50V, 100mA, SOT23	146817	
Q505	NPN, 1.3W, SOT-223	258416-001	
Q506	BPLR, P, 40V, 200mA, SOT23	148596	
Q507	N, MFET, 2.5V, SOT-23	252043	

AV35 Tuner PCB Part List

Transistors

Reference Designator	Description	Material Number	Note
Q600	SOT-23	260354-001	
Q601	BPLR, N, 50V, 100mA, SOT23	146817	
Q602	BPLR, N, 40V, 200mA, SOT23	146819	
Q603	NFET, SMALL SIG, SOT-23, 5LN01C	329013-0020	
Q700	MFET, P, 40V, 3.0A, SOT-23	303215-001	
Q701	SOT-23	260354-001	
Q702	BPLR, N, 50V, 100mA, SOT23	146817	
Q703	BPLR, N, 50V, 100mA, SOT23	146817	
Q704	BPLR, N, 50V, 100mA, SOT23	146817	
Q705	BPLR, N, 50V, 100mA, SOT23	146817	
Q706	SOT-23	260354-001	
Q707	SOT-23	260354-001	
Q708	MFET, SOT23-6, P-ch, 60V, 3A	275417	
Q1200	P, 50V, 2SA1341	146818	
Q1201	P, 50V, 2SA1341	146818	

Integrated Circuits

Reference Designator	Description	Material Number	Note
U100	STM32F103, 32-bitARMMCU	312037-001	
U101	EEPROM, 64K, 2.7V, 2-WIRE	293549-064D	
U103	IC, SECURITY, APPLE, 2.0B, C2	309630-003	NON WWIP
U103	IC, SECURITY, APPLE, 2.0B, C6	309630-006	WWIP
U200	SCHMITT INVERTER, 1x, SOT323	304030-001	
U201	SCHMITT INVERTER, 1x, SOT323	304030-001	
U301	AM/FMTUNER, MFP-30S	254561-001	
U400	RDS, SIGNAL PROCESSOR	254562-001	
U401	IC, PLLFREQSYNTH, MFP-24	199693	
U500	DUALCOMPARATOR, SO-8, LM393	148584	
U700	PWM, V, CNTRLLR, TPS40200	303218-001	
U701	VREG, POS, ADJ, LDO, SOT223	276753-002	
U702	VREG, LDO, 100mA, SOT-89	283384-5000	
U803	2.4GHz, RFXCEVR, 20-PIN QFN	301591-001	

AV35 Tuner PCB Part List

Inductors

Reference Designator	Description	Material Number	Note
L300	1000uH, SWITCHING, 1515,	275095-102	
L500	100nH, CHIP, 5%, 0603	270394-101J	
L501	10uH, SMT,	178370-100	
L502	470nH, 0805, 5%	291122-471J	EU
L502	220nH, 0805, 5%	291122-221J	EU
L503	470nH, 0805, 5%	291122-471J	US
L503	220nH, 0805, 5%	291122-221J	EU
L700	150uH +/-20%, 0.21A	275344-151T	
L701	22uH, 3.9A	300618-220M	
L800	IND, MLC, 0402, 1.2nH, +/-0.3nH	318511-1R2S	
L801	IND, MLC, 0402, 1.2nH, +/-0.3nH	318511-1R2S	
L1200	100uH, INDUCTOR, SMT	178370-101	
L1201	100uH, INDUCTOR, SMT	178370-101	

Switches

Reference Designator	Description	Material Number	Note
S1100	SWITCH, TACT, 5MM, SMT	307693-001	
S1101	SWITCH, TACT, 5MM, SMT	307693-001	
S1102	SWITCH, TACT, 5MM, SMT	307693-001	
S1103	SWITCH, TACT, 5MM, SMT	307693-001	
S1104	SWITCH, TACT, 5MM, SMT	307693-001	
S1105	SWITCH, TACT, 5MM, SMT	307693-001	

Receivers/Transceivers

Reference Designator	Description	Material Number	Note
RR500	RXVR, RF REMOTE, 27.145MHZ	268883-002	US
RR500	RXVR, RF REMOTE, 40.685MHZ	268884-002	EUR
RR800	SENSOR, IR, RCVR, 56kHz, MTH	319147-156	
RR802	SENSOR, IR, RCVR, 38kHz, MTH	319144-038	
RR803	SENSOR, IR, RCVR, 38kHz, MTH	319147-238	

AV35 Tuner PCB Part List

Crystals

Reference Designator	Description	Material Number	Note
X100	CRYSTAL, SMD, 105, AT41CD2, 8.0000MHZ	269923-8R00C18	
X400	XTAL, QUARTZ, 4.332MHZ, 50PPM, SMT	254563-003	
X500	CRYSTAL, 27.145MHZ, FUNDAMENTAL	260353-003	US
X500	XTAL, 40.685MHZ, FUND, HC49U, TAPE	264252-001	EUR
X800	CRYSTAL, 26MHz, HC49/S, SMD	291429-005	

Filters/Tuners

Reference Designator	Description	Material Number	Note
AM-TNR300	TUNER, AM, FRONTEND	310458-001	
FM-TNR300	TUNER, FM, 7V, EURO	258513-003	EUR
FM-TNR300	TUNER, FM,	258513-001	US
T200	TRANSFORMER, PULSE	291115-001	
T300	DETECTOT, FM SINGLE TUNED	254564-001	
T301	FILTER, AM-IF, QUINTIPLE TUNED	254114-001	
T303	FILTER, STEREO MPX, SINGLE TUNED	320855-001	
T305	FILTER, STEREO MPX, SINGLE TUNED	320855-001	
CF300	FILTER, CER, BANDPASS, FGD, 280KHZ	253037-002	
CF301	FILTER, CER, BANDPASS, FGD, 220KHZ	253037-001	

Connectors

Reference Designator	Description	Material Number	Note
J600	CONN, HEADER, 13P, TOP-ENTRY, SMT	253356-T13	
J601	CONN, HEADER, 9POS, TOPENTRY, SMD	253356-T09	
J602	CONN, FFC, .5mm, TOP ENTRY, 50pin	310573-150	
J700	CONN., AV, PINJACK, PWR., PLUG	313954-3020	EUR
J700	CONN., AV, PIN JACK, PWR., PLUG	313954-1020	US
J702	CONN., 2-P, HDR, TOP-ENTRY, KEYED	320507-102	
J800	CONN, HEADER, 13P, TOP-ENTRY, SMT	253356-T13	

AV35 Tuner PCB Part List

Connectors

Reference Designator	Description	Material Number	Note
J801	CONN., RF, COAXIAL, WITH SWITCH	316679-001	
J900	CONN, SMT, .5mm, 24-POS, FFC	269863-024	
J901	CONN., PIN JACK, AUDIO BLOCK, 1X3	321200-1010	
J902	CONN., PINJACK, AUDIOBLOCK, 1X6	321201-1010	
J1100	CONN., SMT, LIF, 9POS., SIDE	255130-009	
J1200	CONN., RCA, 3-POS., AUDIO BLK	313983-1010	
J1201	CONN, SMT, .5mm, 24-POS, FFC	269863-024	

Shields

Reference Designator	Description	Material Number	Note
SHLD300	SHIELD, FENCE, TUNER	261139-001	
SHLD301	SHIELD, FENCE, 72X52MM	317071-0010	
	SHIELD, COVER, TOP	281527-002	
	SHIELD, COVER, 47X18MM	317069-0010	

AV20 AUX PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R100	10K, 0603, .1W, 5%	199403-103	
R101	2.0K, 0603, .1W, 5%	199403-202	
R103	2.0K, 0603, .1W, 5%	199403-202	
R105	100 OHM, 0603, .1W, 5%	199403-101	
R106	100 OHM, 0603, .1W, 5%	199403-101	
R107	100 OHM, 0603, .1W, 5%	199403-101	
R108	100 OHM, 0603, .1W, 5%	199403-101	
R109	100 OHM, 0603, .1W, 5%	199403-101	
R111	100 OHM, 0603, .1W, 5%	199403-101	
R112	100 OHM, 0603, .1W, 5%	199403-101	
R114	2.0K, 0603, .1W, 5%	199403-202	
R115	100K, 0603, .1W, 1%	191465-1003	
R116	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R117	10K, 0603, .1W, 5%	199403-103	
R128	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R129	100K, ARRAY, SMT, 4POS, 5%	186433-1044	
R200	2.2K, 0603, .1W, 5%	199403-222	
R202	10K, 0603, .1W, 5%	199403-103	
R203	10K, 0603, .1W, 5%	199403-103	
R205	470 OHMS, 0603, .1W, 5%	199403-471	
R206	1K, 0603, .1W, 5%	199403-102	
R207	2.2K, 0603, .1W, 5%	199403-222	
R208	113 OHM, 0603, .1W, 1%	191465-1130	
R209	4.7K, 0603, .1W, 5%	199403-472	
R210	4.7K, 0603, .1W, 5%	199403-472	
R213	4.7K, 0603, .1W, 5%	199403-472	
R214	86.6 OHM, 0603, 100MW, 1%	191465-86R6	
R215	30K, 0603, .1W, 5%	199403-303	
R216	750 OHMS, 0603, .1W, 5%	199403-751	
R217	3.9K, 0603, .1W, 5%	199403-392	
R218	10 OHM, 0603, .1W, 5%	199403-100	
R219	2.2K, 0603, .1W, 5%	199403-222	
R220	4.7K, 0603, .1W, 5%,	199403-472	
R223	330 OHM, 0805, 1/10W, 5%	133626-3315	
R224	2.2K, 0603, .1W, 5%	199403-222	
R232	2.2K, 0603, .1W, 5%	199403-222	
R233	22K, 0603, .1W, 5%	199403-223	
R234	10K, 0603, .1W, 5%	199403-103	
R236	2.2K, 0603, .1W, 5%	199403-222	
R238	15 0HM, 0805, 1/10W, 5%	133626-1505	

AV20 AUX PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R309	49.9K, 0603, .1W, 1%	191465-4992	
R310	3.48K, 0603, .1W, 1%	191465-3481	
R406	4.7K, ARRAY, SMT, 4POS, 5%	186433-4724	
R515	27.4K, 0603, .1W, 1%	191465-2742	
R516	10K, 0603, .1W, 1%	191465-1002	
R520	10K, 0603, .1W, 5%	199403-103	
R600	499 OHM, 0603, .1W, 1%	191465-4990	
R601	2.21K, 0603, .1W, 1%	191465-2211	
R602	2.0K, 0603, .1W, 5%	199403-202	
R603	220 OHM, ARRAY, SMT, 4POS, 5%	186433-2214	
R604	430 OHM, 0603, SMD, 100mW	199403-431	
R610	33.0K, 0805, 1/10W, 5%	133626-3335	
R611	33.0K, 0805, 1/10W, 5%	133626-3335	
R612	33.0K, 0805, 1/10W, 5%	133626-3335	
R613	33.0K, 0805, 1/10W, 5%	133626-3335	
R614	33.0K, 0805, 1/10W, 5%	133626-3335	
R615	33.0K, 0805, 1/10W, 5%	133626-3335	
R616	75 OHM, 0805, 1/10W, 5%	133626-7505	
R617	1.18K OHM, 0603, 100MW, 1%	191465-1181	
R618	1.18K OHM, 0603, 100MW, 1%	191465-1181	
R619	75 OHM, 0805, 1/10W, 5%	133626-7505	
R620	100K, 0603, .1W, 1%	191465-1003	
R623	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R624	10K, ARRAY, SMT, 4POS, 5%	186433-1034	
R632	1M, 0603, .1W, 5%	199403-105	
R633	10K, 0603, .1W, 5%	199403-103	
R634	100 OHM, 0603, .1W, 5%	199403-101	
R635	1.00K, 0805, .125W, 1%	133625-1001	
R701	100K, 0603, .1W, 1%	191465-1003	
R702	5.11K, 0603, .1W, 1%	191465-5111	
R704	10 OHM, 0603, .1W, 5%	199403-100	
R708	0.10 OHM, 0805, 1/8W, 5%	304926-R10	
R710	11.3K, 0603, .1W, 1%	191465-1132	
R711	3.01K, 0603, .1W, 1%	191465-3011	
R713	39K, 0603, SMD, 100MW, +/-5%	199403-393	
R714	16.2K, 0603, .1W, 1%	191465-1622	
R716	1K, 0603, .1W, 1%	191465-1001	
R717	6.65K, 0603, .1W, 1%	191465-6651	
R718	47K, 0603, .1W, 5%	199403-473	

AV20 AUX PCB Part List

Resistors

Reference Designator	Description	Material Number	Note
R719	1K, 0603, .1W, 5%	199403-102	
R724	47K, 0603, .1W, 5%	199403-473	
R725	10K, 0603, .1W, 5%	199403-103	
R800	100 OHM, 0603, .1W, 5%	199403-101	
R801	100 OHM, 0603, .1W, 5%	199403-101	
R803	56.2K, 0402, 63MW, 1%	268361-5622	
R813	4.7K, 0603, .1W, 5%	199403-472	
R818	100 OHM, 0603, .1W, 5%	199403-101	
R819	10K, 0603, .1W, 5%	199403-103	
R900	1.00K, 0805, .125W, 1%	133625-1001	
R901	1.00K, 0805, .125W, 1%	133625-1001	
R908	100K, 0603, .1W, 1%	191465-1003	
R909	100K, 0603, .1W, 1%	191465-1003	
R1208	75 OHMS, 0603, .1W, 5%	199403-750	

Capacitors

Reference Designator	Description	Material Number	Note
C102	0.10uF, 0603, 16V, 5%	258498-104	
C103	0.10uF, 0603, 16V, 5%	258498-104	
C105	0.10uF, 0603, 16V, 5%	258498-104	
C106	0.10uF, 0603, 16V, 5%	258498-104	
C107	0.10uF, 0603, 16V, 5%	258498-104	
C108	0.10uF, 0603, 16V, 5%	258498-104	
C109	27pF, 0603, COG, 50V, 5%	188454-270	
C110	22pF, 0603, COG, 50V, 5%	188454-220	
C113	1000pF, 0603, X7R, 50V	191470-102	
C114	180pF, 0603, COG, 50V	188454-181	
C115	180pF, 0603, COG, 50V	188454-181	
C116	180pF, 0603, COG, 50V,	188454-181	
C117	180pF, 0603, COG, 50V	188454-181	
C118	180pF, 0603, COG, 50V	188454-181	
C119	180pF, 0603, COG, 50V	188454-181	
C200	.01uF, 0603, X7R, 50V	191470-103	
C201	0.10uF, 0603, 16V, 5%	258498-104	
C202	470pF, 0603, X7R, 50V	191470-471	
C209	0.10uF, 0603, 16V, 5%	258498-104	
C210	0.10uF 0603, 16V, 5%,	258498-104	
C211	.01uF, 0603, X7R, 50V	191470-103	
C212	.01uF, 0603, X7R, 50V	191470-103	

AV20 AUX PCB Part List

Capacitors

Reference Designator	Description	Material Number	Note
C213	100pF, 0603, X7R, 50V	191470-101	
C602	1000pF, 0603, X7R, 50V	191470-102	
C605	330pF, 0603, COG, 50V, 5%	188454-331	
C608	330pF, 0603, COG, 50V, 5%	188454-331	
C611	330pF, 0603, COG, 50V, 5%	188454-331	
C612	330pF, 0603, COG, 50V, 5%	188454-331	
C616	330pF, 0603, COG, 50V, 5%	188454-331	
C617	10uF, EL, 85, 16V, 20%	177902-100C	
C618	180pF, 0603, COG, 50V	188454-181	
C619	180pF, 0603, COG, 50V	188454-181	
C701	1000pF, 0603, X7R, 50V	191470-102	
C702	470pF, 0603, COG, 50V, 5%	188454-471	
C703	0.22uF, 0805, X7R, 50V, 10%	286499-224	
C704	.047uF, 0603, X7R, 50V	191470-473	
C705	1000pF, 0603, X7R, 50V	191470-102	
C706	0.001uF, 0805, X7R, 50V, 10%	286499-102	
C708	.047uF, 0603, X7R, 50V	191470-473	
C709	47uF, EL, SMD, 105, 25V, 20%	306169-470EF	
C710	0.1uF, 0805, X7R, 50V, 10%	286499-104	
C711	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C713	10uF, EL, 85, 16V, 20%	177902-100C	
C714	0.10uF, 0603, 16V, 5%	258498-104	
C715	100uF, EL, SMD, 105, 16V, 20%	306169-101CF	
C716	1uF, 0805, X7R, 10%, 25V	181264-105	
C721	0.10uF, 0603, 16V, 5%	258498-104	
C803	220pF, COG, 0402, 5%, 50V	268364-221	
C807	0.10uF, 0603, 16V, 5%	258498-104	
C822	47uF, EL, 85, 6.3V, 20%	177902-470J	
C900	180pF, 0603, X7R, 50V	191470-181	
C901	180pF, 0603, X7R, 50V	191470-181	
C908	10uF, EL, 85, 16V, 20%	177902-100C	
C909	10uF, EL, 85, 16V, 20%	177902-100C	
C1203	10uF, EL, 85, 16V, 20%	177902-100C	
C1207	10uF, EL, 85, 16V, 20%	177902-100C	
C1208	1000uF, EL, SMT, 85d, 10V, 20%	307104-102A	
C1209	1000uF, EL, SMT, 85d, 10V, 20%	307104-102A	

AV20 AUX PCB Part List

Diodes

Reference Designator	Description	Material Number	Note
D103	DUAL, SOT-23, BAW56	180738	
D200	SOT-23, BAV99	147239	
D201	SOT-23, BAV99	147239	
D203	SOT-23, BAV99	147239	
D204	DUAL, SOT-23, BAW56	180738	
D600	SOT-23, BAV99	147239	
D601	SOT-23, BAV99	147239	
D602	DUAL, SOT-23, BAW56	180738	
D604	SOT-23, BAV99	147239	
D701	SOT-23, BAV99	147239	
D704	SOT-23, BAV99	147239	
DS1100	LED, SMD, VERT, BICOLOR, YEL, RED	307689-003	
DS800	DUAL, LED, RED, GRN, CM_ANOD	316292-001	

Transistors

Reference Designator	Description	Material Number	Note
Q1	BPLR, N, 50V, 100mA, SOT23	146817	
Q2	BPLR, N, 50V, 100mA, SOT23	146817	
Q200	BPLR, N, 40V, 200mA, SOT23	146819	
Q203	BPLR, P, 40V, 200mA, SOT23	148596	
Q205	BPLR, N, 40V, 200mA, SOT23	146819	
Q206	BPLR, N, 50V, 100mA, SOT23	146817	
Q207	TRANSISTOR, SOT-23	260354-001	
Q209	BPLR, N, 40V, 200mA, SOT23	146819	
Q213	BPLR, N, 40V, 200mA, SOT23	146819	
Q600	TRANSISTOR, SOT-23	260354-001	
Q601	BPLR, N, 50V, 100mA, SOT23	146817	
Q602	BPLR, N, 40V, 200mA, SOT23	146819	
Q700	MFET, P, 40V, 3.0A, SOT-23	303215-001	
Q701	TRANSISTOR, SOT-23	260354-001	
Q702	BPLR, N, 50V, 100mA, SOT23	146817	
Q705	BPLR, N, 50V, 100mA, SOT23	146817	

AV20 AUX PCB Part List

Integrated Circuits

Reference Designator	Description	Material Number	Note
U100	STM32F103, 32-bitARMMCU	312037-001	
U200	SCHMITT INVERTER, 1x, SOT323	304030-001	
U201	SCHMITT INVERTER, 1x, SOT323	304030-001	
U700	IPWM, V, CNTRLLR, TPS40200	303218-001	
U701	VREG, POS, ADJ, LDO, SOT223	276753-002	
U702	VREG, LDO, 100mA, SOT-89	283384-5000	

Miscellaneous

Reference Designator	Description	Material Number	Note
L700	INDUCTOR, 0.21A, 150UH+/-20%	275344-151T	
L701	INDUCTOR, FIXED, 22UH, 3.9A	300618-220M	
T200	TRANSFORMER, PULSE	291115-001	
X100	CRYSTAL, SMD, 105, AT41CD2, 8.0000MHZ	269923-8R00C18	
X800	CRYSTAL, 26MHz, HC49/S, SMD	291429-005	
S1100	SWITCH, TACT, 5MM, SMT	307693-001	
S1101	SWITCH, TACT, 5MM, SMT	307693-001	
S1102	SWITCH, TACT, 5MM, SMT	307693-001	
S1103	SWITCH, TACT, 5MM, SMT	307693-001	
S1104	SWITCH, TACT, 5MM, SMT	307693-001	
S1105	SWITCH, TACT, 5MM, SMT	307693-001	
J1201	CONN, SMT, .5mm, 24-POS, FFC	269863-024	
J600	CONN, HEADER, 13P, TOP ENTRY, SMT	253356-T13	
J601	CONN, HEADER, 9 POS, TOP ENTRY, SMD	253356-T09	
J602	CONN, FFC, .5mm, TOP ENTRY, 50 PIN	310573-150	
J700	CONN, AV,PWR PLUG, W/O FM, W/PWR	313954-2020	
J800	CONN, HEADER, 13P, TOP-ENTRY, SMT	253356-T13	
J900	CONN, SMT, .5MM, 24-POS, FFC	269863-024	

Disassembly Procedures

1. Top Cover Assembly Removal

1.1 Remove the 6 screws located on the bottom of the console as indicated.

1.2 Lift off the top cover assembly.

Important Note: When replacing the top cover, press down on the top cover before tightening the screws. Do this to avoid the screw having to take up the pressure of the cover shield against the base shield. Failure to do so could result in a stripped screw.

2. AUX/Tuner PCB Removal

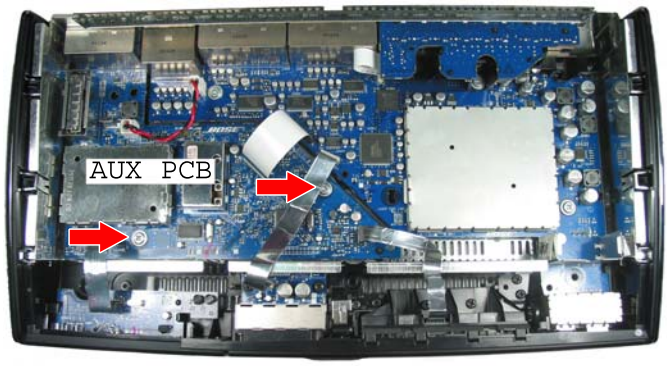
2.1 Remove the two screws indicated.

2.2 Remove the four cables from the AUX PCB connectors.

2.3 Remove the two screws securing the J700 connector block to the rear panel.

2.4 Lift up the AUX PCB.

Important Note: When replacing the AUX PCB, align the J700 connector block to the rear panel before securing it with the screws. Do not allow the rear panel to touch the AM/FM connector shields. Center the PCB screw holes to the screws bosses in the base.

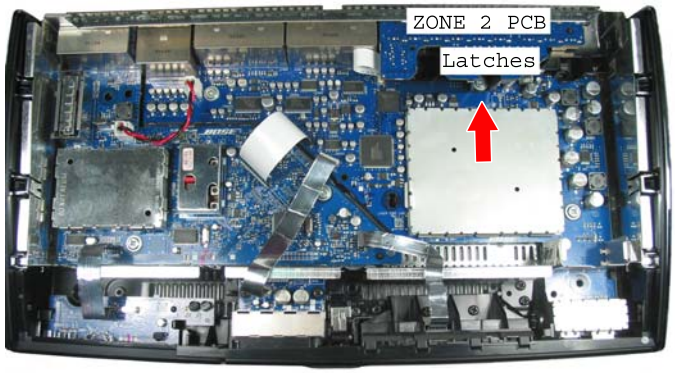


3. Zone 2 PCB Removal (AV35 Only)

3.2 Remove the three screws securing the RCA block to the rear panel.

3.3 Remove the three screws securing the Zone 2 PCB bracket to the rear panel.

3.4 Lift out the Zone 2 PCB.



Disassembly Procedures

4. Main PCB Removal

4.1 Perform procedure 3 first

4.2 Remove the three screws indicated.

4.3 Remove the five screws securing the Main PCB connector blocks to the rear panel.

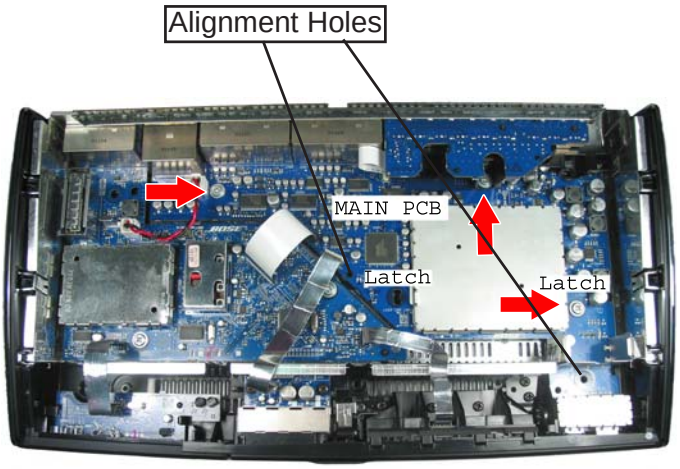
4.4 Lift out the Zone 2 PCB bracket.

4.5 Disconnect the three cables from the Main PCB.

4.6 Release the two latches indicated.

4.7 Lift out the Main PCB

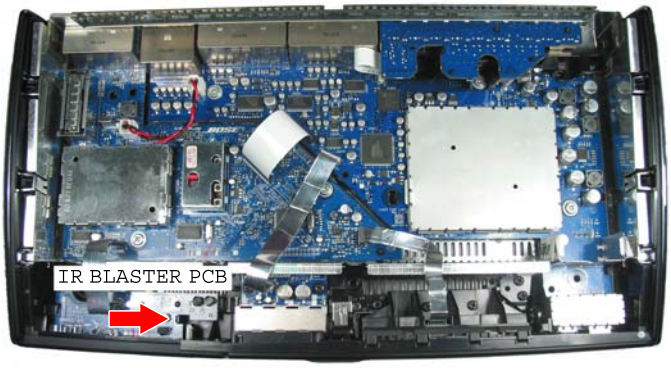
Important Note: When replacing the Main PCB, align the connector blocks to the rear panel before securing it with the screws. Align the PCB to the alignment holes provided in the base.



5. IR Blaster PCB Removal

5.1 Remove the cable from the IR blaster PCB.

5.1 Press on the latch indicated and lift up on the right side of the PCB.

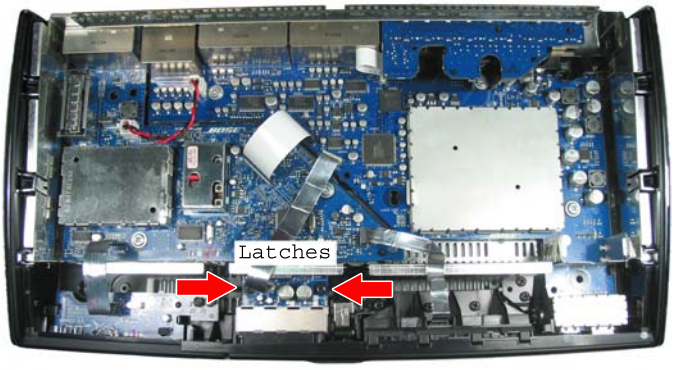


6. Front AV PCB Removal

6.1 Remove the two screws indicated.

6.2 Remove the cable from the AV PCB.

6.3 While pressing on the two latches toward the rear of the PCB, lift up on the rear of the PCB.

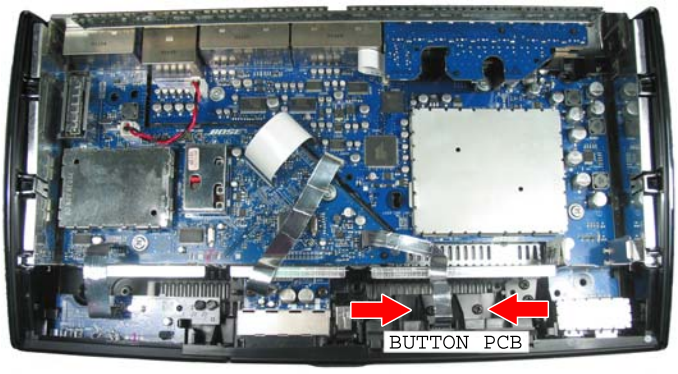


7. Button PCB Removal

7.1 Remove the two screws indicated.

7.2 Remove the

7.3 Lift up on the right side of the button assembly and rotate toward the left to release the latches.



Disassembly Procedures

8. End Cap Removal

8.1 The latches on the end cap need to be released from the console base. See Figure 2.

8.2 Turn the console upside down.

8.3 Press a flat blade screwdriver in-between the console base and the front of the end cap. Once the screwdriver is between the end cap and base, rotate the screw driver downward to loosen the front end cap latch. See Figure 3.

8.4 Press a flat blade screwdriver in-between the console base and the rear of the end cap. Once the screwdriver is between the end cap and base, rotate the screw driver downward to loosen the rear end cap latch. See Figure 4.

8.5 Once the both ends of the end cap are released, slide off the end cap.

9. End Cap Replacement

9.1 With the console right side up, slide the end cap onto the side of the base. Be sure to engage all end cap latches into the base.

9.2 Press downward on the end cap until the flat edges of the end cap alignment locator is flush with the bass. See Figure 5.

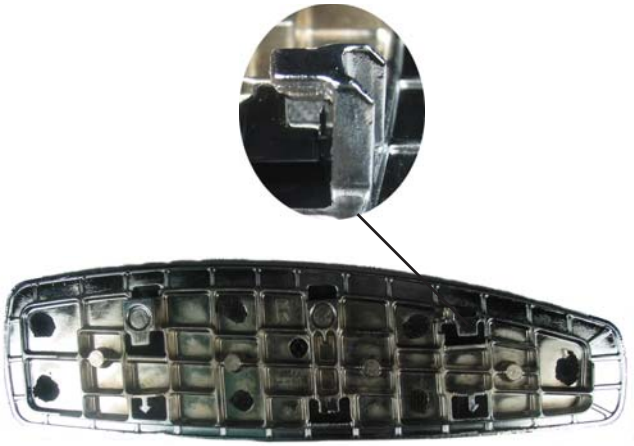


Figure 2. End Cap Latch

Figure 3. Front of End Cap Release

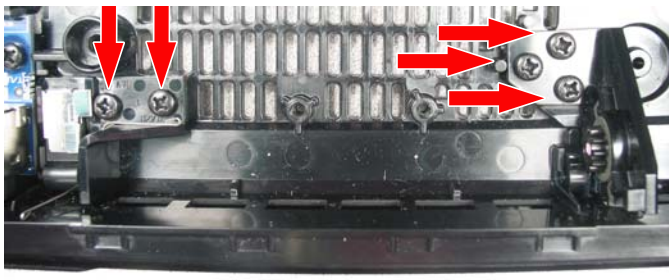
Figure 4. Rear of End Cap Release

Figure 5. End Cap Alignment Locator

Disassembly Procedures

9. Door Assembly Removal

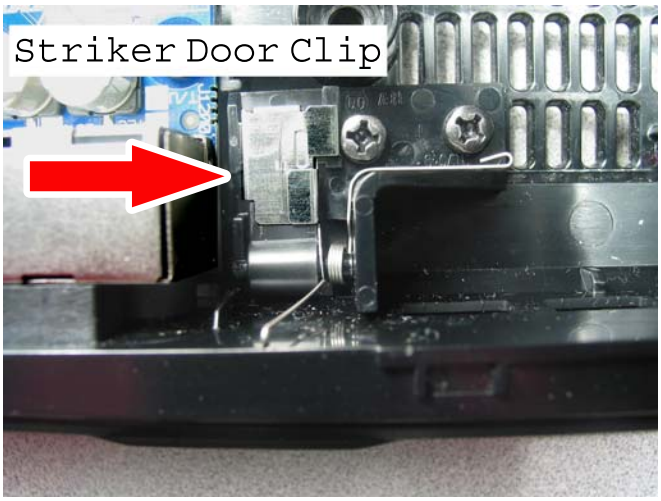
9.1 Remove the three screws from the right hinge assembly as indicted. Lift off the hinge assembly.



9.2 Remove the two screws from the left hinge assembly as indicated.

9.3 Open the door slightly. Slide the left hinge assembly toward the right to disengage it from the door hinge pin, leaving the spring in the hinge assembly.

9.4 Slide off the striker door clip.



9.5 Slide out the door.

Issuing TAP Commands

Items Needed

1. Utapia - download from the AV20/35 product page - http://serviceops.bose.com
2. TAP cable part number 264565

Setup

1. Connect the TAP cable to your computer's COM port and the console's DATA connector on the rear.
2. Download Utapia to your C drive.
3. Connect power to the console.
4. Open the utapia.exe program

Verify Unit is Responding to TAP commands

1. Type the TAP command "vr lpm" (without quotes) and press Enter to view the AUX PCB software version
The console will respond with VR:XX.XX.XX, where X is the software version

2. Type the TAP command "vr avrd" (without quotes) and press Enter to view the Main PCB software version.
The console will respond with VR:XX.XX.XX, where X is the software version.

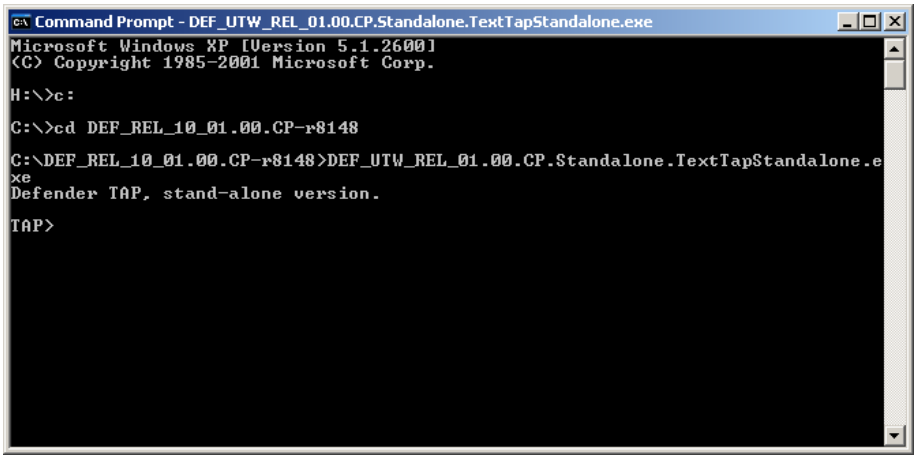


Figure 6. uTapia started in a command prompt window

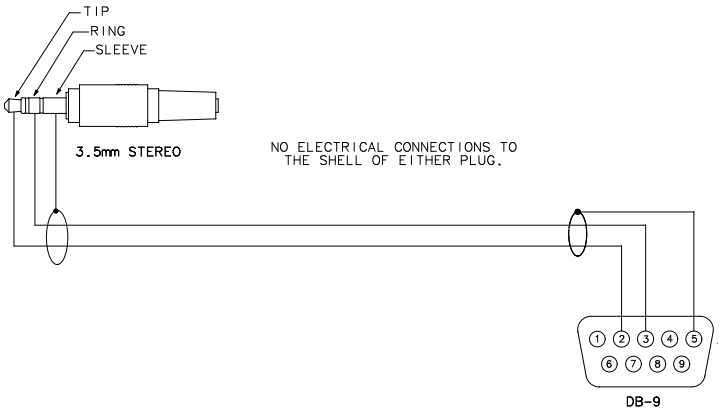


Figure 7. TAP Cable

Setting the Console's Product, Region Variant

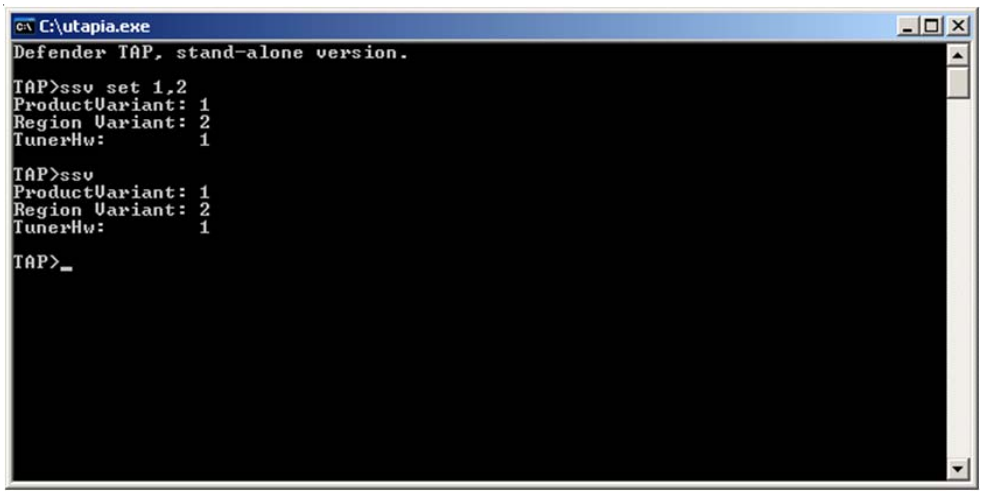
1. Follow the procedure on page 66 for Issuing TAP Commands

2. Enter the TAP command "ssv set X,X" (without the qoutes)
Where X,X corresponds to the Product, Region Code. Refer to the Variant Table below for the appropriate Product, Region Code.

3. Turn off the console and remove power after it shuts down. Reapply power and check the Product, Region Code by entering the TAP command "ssv" (without the qoutes). The console will respond with the current Product, Region Code. Refer to the screen image below.

Console Variant Table

Variant (first six digits of serial number)	Description	**Product, Region Code**	AM/FM Tuner and Connectors	RDS Chip	iPod Interface & Connector	27/40MHz Transceiver & Jack	Zone2 Audio Chips	Back USB	TV Audio Inputs	Boselink Master Out	Acoustimass Out	HDMI Out
051115, 054581	AV25/35, US	4,0	US	Yes	Yes	27MHz	Yes	Yes	Yes	Yes	No	Yes
051526, 054582	AV25/35, Euro	4,2	Euro	Yes	Yes	40MHz	Yes	Yes	Yes	Yes	No	Yes
051527, 054583	AV25/35, Japan	4,1	Japan	No	Yes	No	No	Yes	Yes	No	No	Yes
053582, 054584	AV25/35, APAC	4,4	Euro	Yes	Yes	40MHz	Yes	Yes	Yes	Yes	No	Yes
051116	AV20, US	5,0	No	No	No	No	No	No	Yes	No	No	Yes
053581	AV20, Euro	5,2	No	No	No	No	No	No	Yes	No	No	Yes
053771	AV20, Japan	5,1	No	No	No	No	No	No	Yes	No	No	Yes
053772	AV20, APAC	5,4	No	No	No	No	No	No	Yes	No	No	Yes
051528	AVM, US	3,0	No	No	Yes	No	No	Yes	No	No	No	HDAV
053791	AVM, Euro	3,2	No	No	Yes	No	No	Yes	No	No	No	HDAV
053792	AVM, Japan	3,1	No	No	Yes	No	No	Yes	No	No	No	HDAV
053793	AVM, APAC	3,4	No	No	Yes	No	No	Yes	No	No	No	HDAV



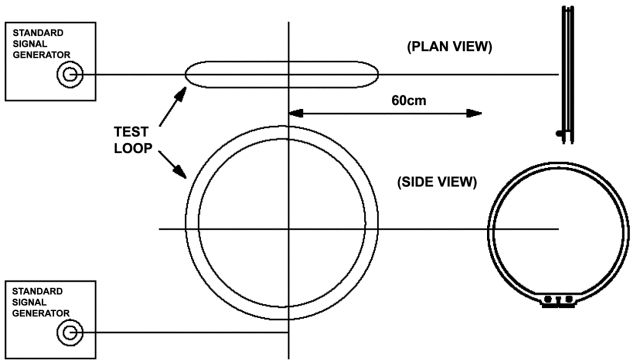
Screen Image of TAP Command ssv set X,X and ssv

AV35 Adjustment/Performance Verification Procedures

AM Tuner General Test Setup

Refer to the figure below. The equivalent field intensity is 26 dB less than the generator output level or 1/20th of the output voltage. The signal levels given do not include this factor. Measurements are taken from the record output.

Setup a computer to issue TAP commands. See page 66 for instructions.



1. AM Sensitivity Performance Verification

1.1 Set the RF generator output for a 55 dBuV/m field intensity, 30% AM modulation, 1 KHz and the unit and RF generator to 1080 kHz.

1.2 The headphone output should measure ≤ 10% THD+N.

2. AM Stop Level Adjustment, TAP

2.1 Set the RF generator to 1080 kHz, 30% AM modulation, 1 kHz modulation, 57 dBuV/m field intensity at the unit's antenna.

2.2 Issue the TAP command TM set 2.

2.3 Set the generator to 1110 kHz , 61 dBuV/m field intensity.

2.4 Place the unit into seek and verify the unit stops at 1110 kHz.

2.5 Switch the RF generator for a 51 dBuV/m field intensity and verify the radio does not stop at 1110 kHz.

FM Tuner General Test Setup

Connect the signal generator to the FM antenna jack J2001 using a 50 to 75 Ohm matching network. Adjustments to the procedure's stated signal levels should be made to account for a signal level loss due to the matching network and/or any other losses.

Setup a computer to issue TAP commands. See page 66 for instructions.

3. FM Signal to Noise

3.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 65 dBf at the unit's FM antenna input.

3.2 Adjust the unit to 98.1 MHz.

3.3 Reference a dB meter to the left headphone output.

3.4 Turn off the modulation and pilot. The left headphone output should measure ≤ -55dBr.

4. FM Sensitivity Verification

4.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 20 dBf at the unit's FM antenna input.

4.2 Measure the distortion at the left or right headphone output. It should be ≤ 3.0% THD+N.

5. FM Stop Level Adjustment, TAP

5.1 Set the RF generator to 98.1 MHz (83.0 MHz for Japan), 1 kHz mono modulation, pilot off, 75 kHz deviation, 30 dBf, at the unit's FM antenna input.

5.2 Issue the TAP command TM SET 3 (TM SET 4 for Japan).

5.3 Switch the RF generator to 98.7 MHz (83.3 MHz), 35 dBf at the units FM antenna input.

5.4 Place the unit into seek and verify that it stops at 98.7 MHz.

5.5 Reduce the RF generator to 25 dBf at the units FM antenna input.

5.6 Place the unit into seek. Verify the radio does not stop at 98.7 MHz.

6. FM Stereo Threshold Setting

6.1 Set the RF generator to 98.1 MHz (83.0 MHz for Japan), 1 kHz L= -R modulation, pilot 10%, 75 kHz deviation, 40 dBf, at the unit's FM antenna input.

6.2 Issue the TAP command TM SET 5 (TM SET 6 for Japan).

6.3 Increase the RF generator to 45 dbf. Verify the radio is in stereo mode.

6.3 Decrease the RF generator to 35 dbf. Verify the radio is in mono mode.

7. Completion of Tuner Adjustments

Note: Any adjustments made, must be stored to the EEPROM.

7.1 Enter the TAP command "NV" (without the quotes).

AV20/35 Performance Verification Procedures

6. Input/Output Tests

6.1 Connect the PS III bass module to the console's acoustimass output.

6.2 Connect a TV to the console's TV output.

6.3 Power on the console.

6.4 Make the connections as directed in the table below.

6.5 When a connection is made, the console should display a prompt on the TV screen. At each prompt, select NO to bypass the Unify™ , which is a system aided setup process.

6.6 Using the remote, navigate to and select the connected source.

6.7 When a connection is removed, Unify™ will display a prompt on the TV. Select Remove this Device when prompted and then select YES when prompted to remove the device.
Important Note: 1. The input connectors have switches to detect when a device is connected. If the console does not start Unify™ after making a connection, there is most likely a problem with the switch in that connector. **2.** The front HDMI, USB, Left/Right audio, composite and rear USB connector to not bring up Unify™ when a device is connected. When a device is connected to these connectors, the device should be visible as a source in the source menu.

Test	Test for the…	Connect the console…	To…	Listen/look for…
1	HDMI Rear Inputs	HDMI 1 input	An HDMI audio and video source	A clean undistorted audio from the PS III bass module. A clean undistorted picture from the TV.
		HDMI 2 input		
		HDMI 2 input		
		HDMI Front Input		
2	Analog Inputs	TV L and R input	An analog audio source	A clean undistorted audio from the PS III bass module.
		Input 4 L and R input		
		Input 5 L and R input		
3	Optical Inputs	TV Optical input	An optical audio source	A clean undistorted audio from the PS III bass module.
		Optical 4 input		
		Optical 5 input		
4	Coax Inputs	TV Coax input	A coax audio source	A clean undistorted audio from the PS III bass module.
		Coax 4 input		
		Coax 5 input		
5	Composite Video Inputs	Composite input 4	A composite video source	A clean undistorted picture from the TV.
		Composite input 5		
6	Component Video Input	Component input 4	A component video source	A clean undistorted picture from the TV.
		Component input 5		
7	IPOD/DOC Input	IPOD/DOC input	The DOC supplied with the system with audio playing from an inserted IPOD	A clean undistorted audio from the PS III bass module.
8	USB Input	USB Front Input	USB thumb drive loaded with a jpeg	A clean undistorted picture from the TV.
		USB Rear Input		

Revision History

DATE	REV	ECN	Description
05/24/10	00		Initial Release
06/22/10	01	48251	New FLASH DRIVE – Removing Silicone Case
06/22/10	01	48521	NEW DOC – Label change from IPOD to DOC
06/22/10	01	47651	New rear panel – Label change from IPOD to DOC
09/30/2010	02		New Tuner PCB for LS 235 consoles
10/10	03		Added new Tuner PCB part numbers and VideoWave™ cosmetics
11/10	04		Added console variants table – page 6
12/10	05	49314	New HDMI cable
01/05/11	06		Added new WWiP bass modules
02/2011	07		Added variant TAP process
4/2011	08		Reformatted main part list
6/2011	09	50371	New Power Pack
08/2011	10		New main and tuner PCBs – software change
08/2011	11		New Console material numbers
10/2011	12		New Remote material numbers
12/2011	13		Switch to consoles labeled “Audio Out”
12/2011	14	51306	New top cover heat sink
12/2011	15	51363	New Ipod doc and power pack part number
02/2012	16	52223	New thermal pad, carton, og, rear panel, IR dongle, OG, USB FLASH
4/2012	17		NEW PCBS - Software
7/2012	18		NEW PCBS and consoles for VideoWave® II
10/2012	19	52952	Updated part numbers , Pages 34,51,52,60
03/2013	20	54342	CHANGED C16001
01/2014	21		CHANGED REMOTE PART NUMBERS
02/2014	22		UPDATED AV20 REMOTE
02/2014	23		POWER SUPPLY PART NUMBER UPDATED

BOSE®
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Lifestyle® T20/T10 home entertainment system

Lifestyle® 135 home entertainment system

Lifestyle® 235 home entertainment system

VideoWave® entertainment system

Control Console

V35

V20

VideoWave (AVM)

VideoWave II (AVM)

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Service Manual

Reference Number 317084-SM REV 23
Electronic copy only

Specifications and Features Subject to Change Without Notice

Bose Corporation
The Mountain
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